



August 24, 2006

State of Utah  
Division of Oil, Gas & Mining  
Attn: Diana Whitney  
1594 West North Temple - Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill

**Lone Tree Federal 2-21-9-17**  
**Lone Tree Federal 3-21-9-17**  
**Lone Tree Federal 4-21-9-17**  
**Lone Tree Federal 5-21-9-17**  
**Lone Tree Federal 6-21-9-17**  
**Lone Tree Federal 7-21-9-17**

**Lone Tree Federal 8-21-9-17**  
**Lone Tree Federal 9-21-9-17**  
**Lone Tree Federal 11-21-9-17**  
**Lone Tree Federal 12-21-9-17**  
**Lone Tree Federal 13-21-9-17**  
**Lone Tree Federal 16-21-9-17**

Dear Diana:

Enclosed find APD's on the above referenced wells. The proposed 12-21-9-17 and 13-21-9-17 are also Exception Locations. Our Land Department will send you the required Exception Location Letters. If you have any questions, feel free to give either Shon Mckinnon or myself a call.

Sincerely,

Mandie Crozier  
Regulatory Specialist

mc  
enclosures

**RECEIVED**

**AUG 25 2006**

**DIV. OF OIL, GAS & MINING**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.

UTU-13905

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA Agreement, Name and No.

Lone Tree

8. Lease Name and Well No.

Lone Tree Federal 7-21-9-17

9. API Well No.

43 013 33288

1a. Type of Work: ☒ DRILL

☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other

☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Newfield Production Company

3a. Address

Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)

(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface SW/NE 2132' FNL 1941' FEL 584635X 40.017962  
At proposed prod. zone 443092y -110.008270

11. Sec., T., R., M., or Blk. and Survey or Area

SW/NE Sec. 21, T9S R17E

14. Distance in miles and direction from nearest town or post office\*

Approximatley 15.8 miles southeast of Myton, Utah

12. County or Parish

Duchesne

13. State

UT

15. Distance from proposed\*  
location to nearest  
property or lease line, ft.  
(Also to nearest drig. unit line, if any)

Approx. 2132' f/lse, 2831' f/unit

16. No. of Acres in lease

1200.00

17. Spacing Unit dedicated to this well

40 Acres

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft.

Approx. 1165'

19. Proposed Depth

5650'

20. BLM/BIA Bond No. on file

UTB000192

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5301' GL

22. Approximate date work will start\*

4th Quarter 2006

23. Estimated duration

Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

Name (Printed/Typed)

Mandie Crozier

Date

8/23/06

Title

Regulatory Specialist

Approved by (Signature)

Name (Printed/Typed)

BRADLEY G. HILL

Date

08-29-06

Title

Off ENVIRONMENTAL MANAGER

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

Federal Approval of this  
Action Is Necessary

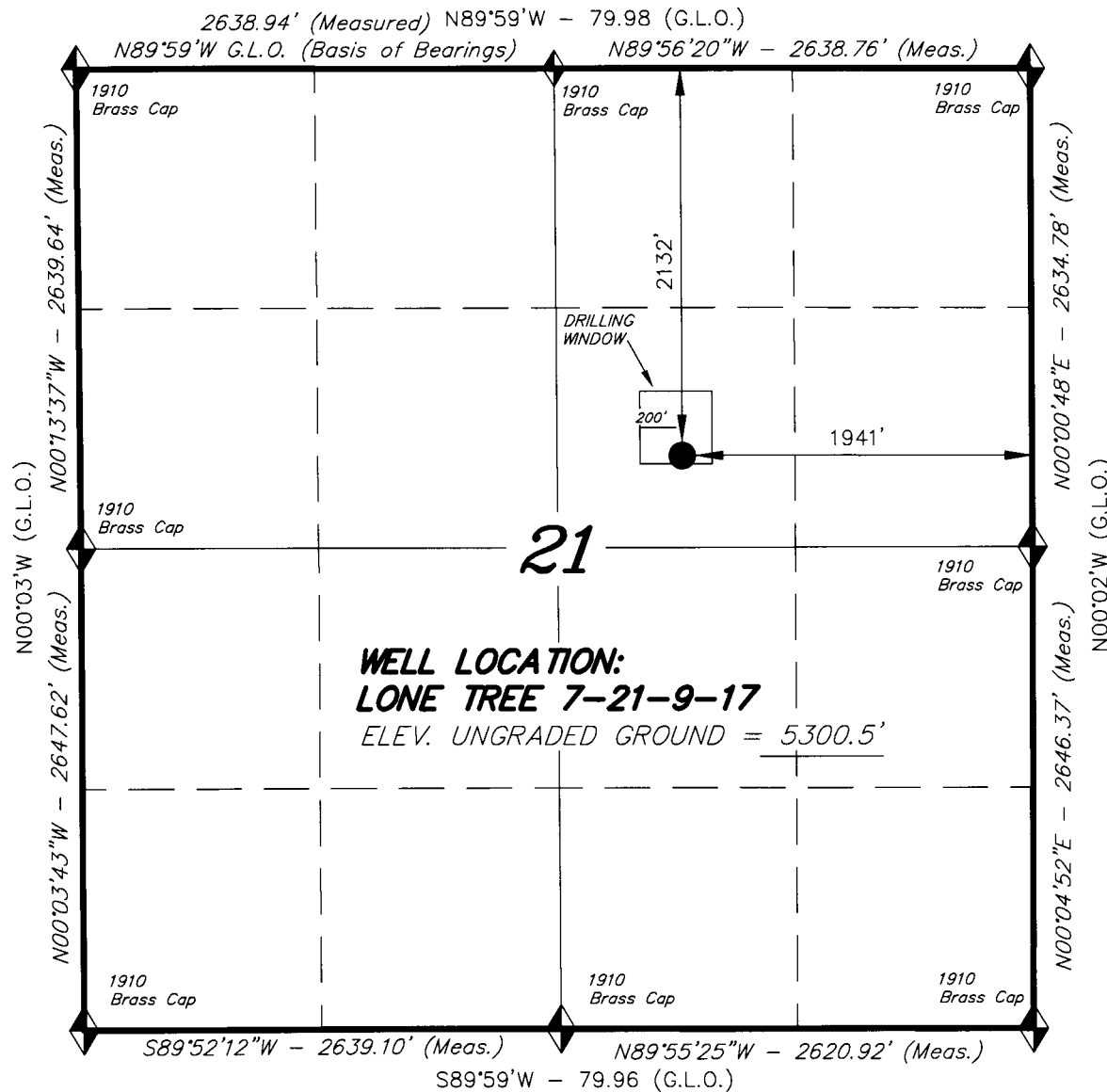
RECEIVED

AUG 25 2006

DIV. OF OIL, GAS & MINING

# T9S, R17E, S.L.B.&M.

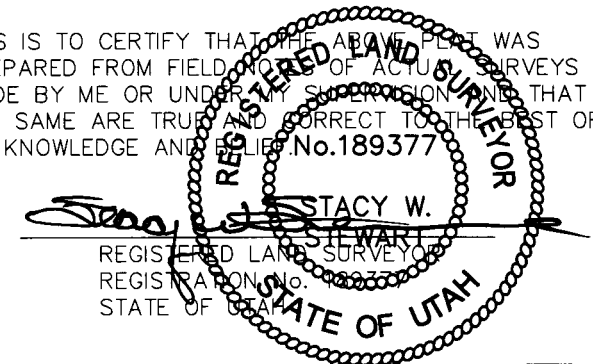
## NEWFIELD PRODUCTION COMPANY



WELL LOCATION, LONE TREE 7-21-9-17,  
 LOCATED AS SHOWN IN THE SW 1/4 NE  
 1/4 OF SECTION 21, T9S, R17E,  
 S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
 PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
 MADE BY ME OR UNDER MY SUPERVISION AND THAT  
 THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
 MY KNOWLEDGE AND BELIEF. No. 189377



◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;  
 U.S.G.S. 7-1/2 min QUAD (MYTON SE)

**LONE TREE 7-21-9-17**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 01' 04.32"  
 LONGITUDE = 110° 00' 32.82"

## TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
 (435) 781-2501

DATE SURVEYED: 6-20-06	SURVEYED BY: C.M.
DATE DRAWN: 06-26-06	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

**NEWFIELD PRODUCTION COMPANY  
LONE TREE FEDERAL #7-21-9-17  
SW/NE SECTION 21, T9S, R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**DRILLING PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' – 2000'
Green River	2000'
Wasatch	5650'

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 2000' – 5650' - Oil

**4. PROPOSED CASING PROGRAM**

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

Please refer to the Monument Butte Field SOP. See Exhibit "C".

**6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

Please refer to the Monument Butte Field SOP.

**7. AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Please refer to the Monument Butte Field SOP.

**8. TESTING, LOGGING AND CORING PROGRAMS:**

Please refer to the Monument Butte Field SOP.

**9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

**10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Please refer to the Monument Butte Field SOP.

**NEWFIELD PRODUCTION COMPANY  
LONE TREE FEDERAL #7-21-9-17  
SW/NE SECTION 21, T9S, R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site Lone Tree Federal #7-21-9-17 located in the SW 1/4 NE 1/4 Section 21, T9S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 - 11.7 miles  $\pm$  to it's junction with an existing dirt road to the southwest; proceed southwesterly - 0.9 miles  $\pm$  to it's junction with an existing road to the south; proceed southeasterly - 2.0 miles  $\pm$  to it's junction with the beginning of the proposed access road to the northeast; proceed northeasterly along the proposed access road - 930'  $\pm$  to the proposed well location.

**2. PLANNED ACCESS ROAD**

See Topographic Map "B" for the location of the proposed access road.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

All permanent surface equipment will be painted Carlsbad Canyon.  
Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

**5. LOCATION AND TYPE OF WATER SUPPLY**

Please refer to the Monument Butte Field SOP. See Exhibit "A".

**6. SOURCE OF CONSTRUCTION MATERIALS**

Please refer to the Monument Butte Field SOP.

**7. METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

**8. ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management (Proposed location and access roads leading to).

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #04-206, 6/15/05. Paleontological Resource Survey prepared by, Wade E. Miller, 6/2/05. See attached report cover pages, Exhibit "D".

For the Lone Tree Federal #7-21-9-17 Newfield Production Company requests 930' of disturbed area be granted in Lease UTU-13905 to allow for construction of the proposed access road. **Refer to Topographic Map "B"**. The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Newfield Production Company requests 930' of disturbed area be granted in Lease UTU-13905 to allow for construction of the proposed gas lines. It is proposed that the disturbed area will be 50' wide to allow for construction of a 6" gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

Newfield Production Company requests 930' of disturbed area be granted in Lease UTU-13905 to allow for construction of the proposed water lines. It is proposed that the disturbed area will be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

**Water Disposal**

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

**Threatened, Endangered, And Other Sensitive Species**

None for the proposed Lone Tree Federal 6-21-9-17 location.

**Reserve Pit Liner**

A 12 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Western Wheatgrass	<i>Pascopyrum Smithii</i>	6 lbs/acre
Galletta Grass	<i>Hilaria Jamesii</i>	6 lbs/acre

**Details of the On-Site Inspection**

The proposed Lone Tree Federal #7-21-9-17 was on-sited on 7/27/06. The following were present; Shon Mckinnon (Newfeild Production), Chris Carusona (Bureau of Land Management), and Brandon McDonald (Bureau of Landmanagement). Weather conditions were clear and ground cover was 100% open.

**13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION****Representative**

Name: Shon Mckinnon  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

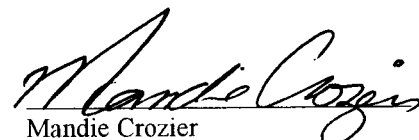
**Certification**

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #7-21-9-17 SW/NE Section 21, Township 9S, Range 17E: Lease UTU-13905 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by US Specialty Insurance #B001832.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

8/24/06

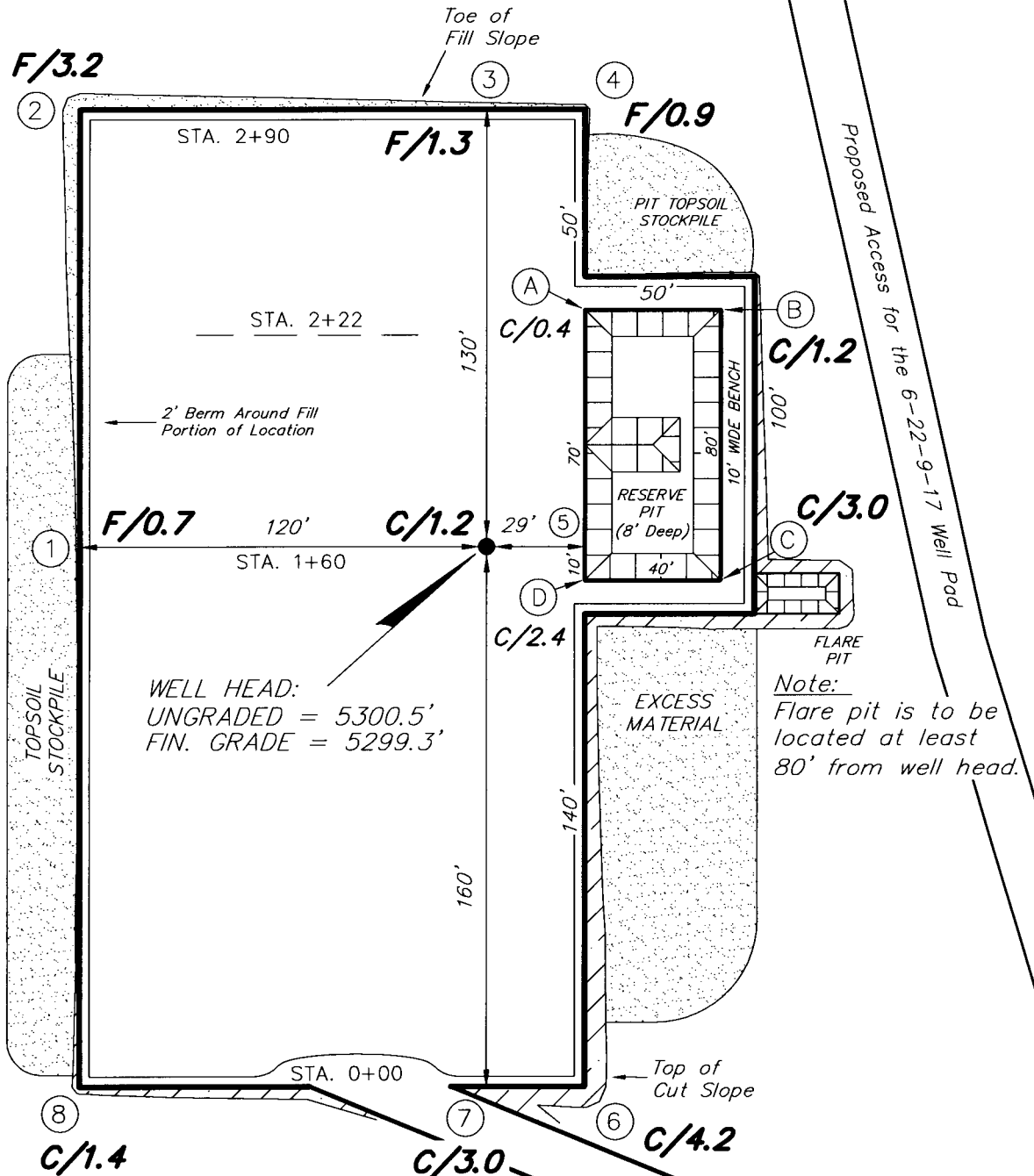
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

LONE TREE 7-21-9-17

Section 21, T9S, R17E, S.L.B.&M.



## REFERENCE POINTS

180' EASTERLY = 5297.0'  
230' EASTERLY = 5295.8'  
170' NORTHERLY = 5298.2'  
220' NORTHERLY = 5297.7'

PROPOSED ACCESS  
ROAD (Max. 6% Grade)

SURVEYED BY: C.M.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 06-26-06

Tri State  
Land Surveying, Inc.

(435) 781-2501

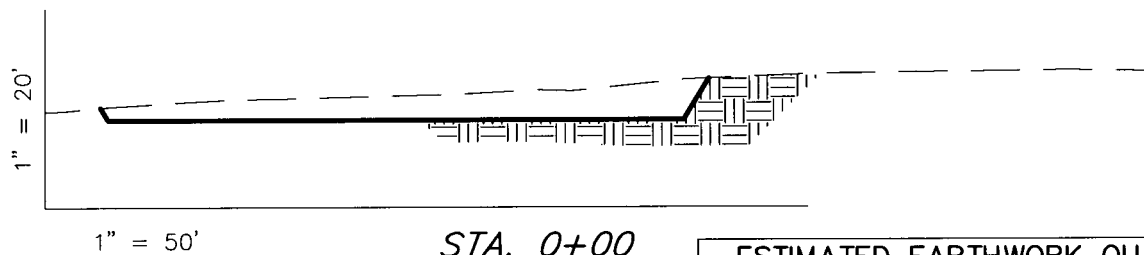
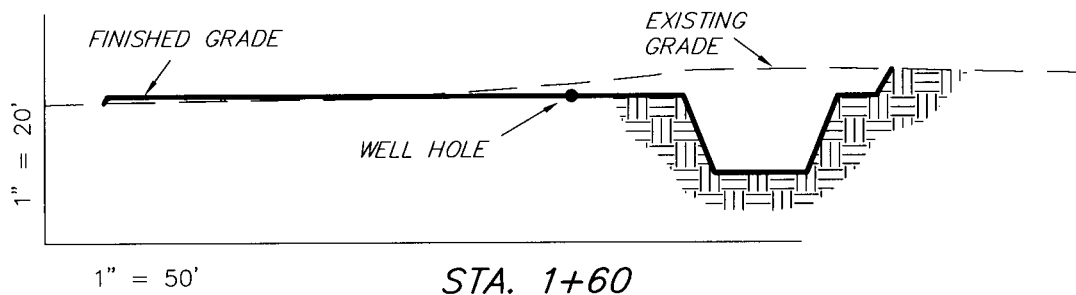
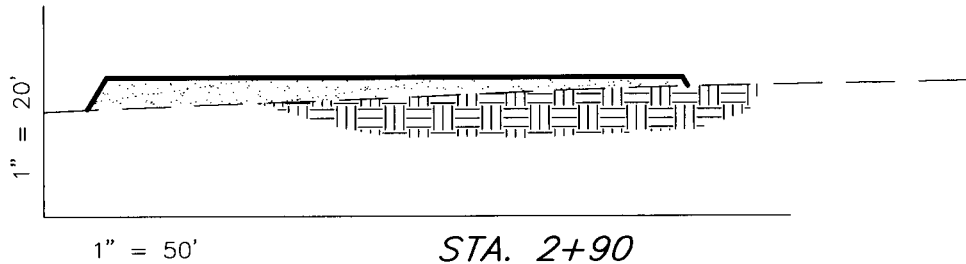
180 NORTH VERNAL AVE. VERNAL, UTAH 84078



# NEW FIELD PRODUCTION COMPANY

## CROSS SECTIONS

LONE TREE 7-21-9-17



NOTE:  
UNLESS OTHERWISE NOTED  
ALL CUT/FILL SLOPES ARE  
AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	1,310	1,300	Topsoil is not included in Pad Cut	10
PIT	640	0		640
TOTALS	1,950	1,300	960	650

SURVEYED BY: C.M.

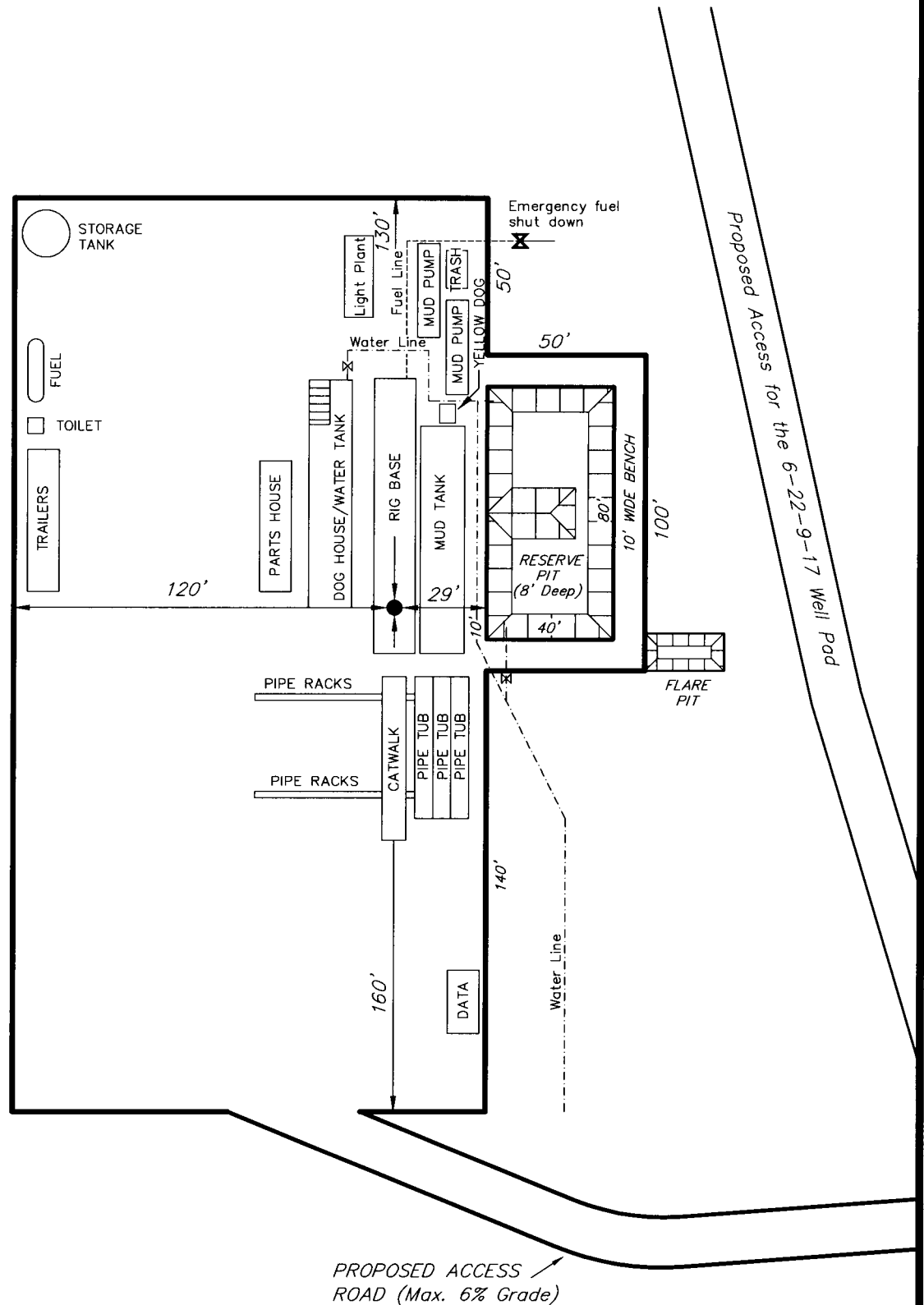
SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 06-26-06

Tri State  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
(435) 781-2501

**NEWFIELD PRODUCTION COMPANY**  
**TYPICAL RIG LAYOUT**  
**LONE TREE 7-21-9-17**



SURVEYED BY: C.M.

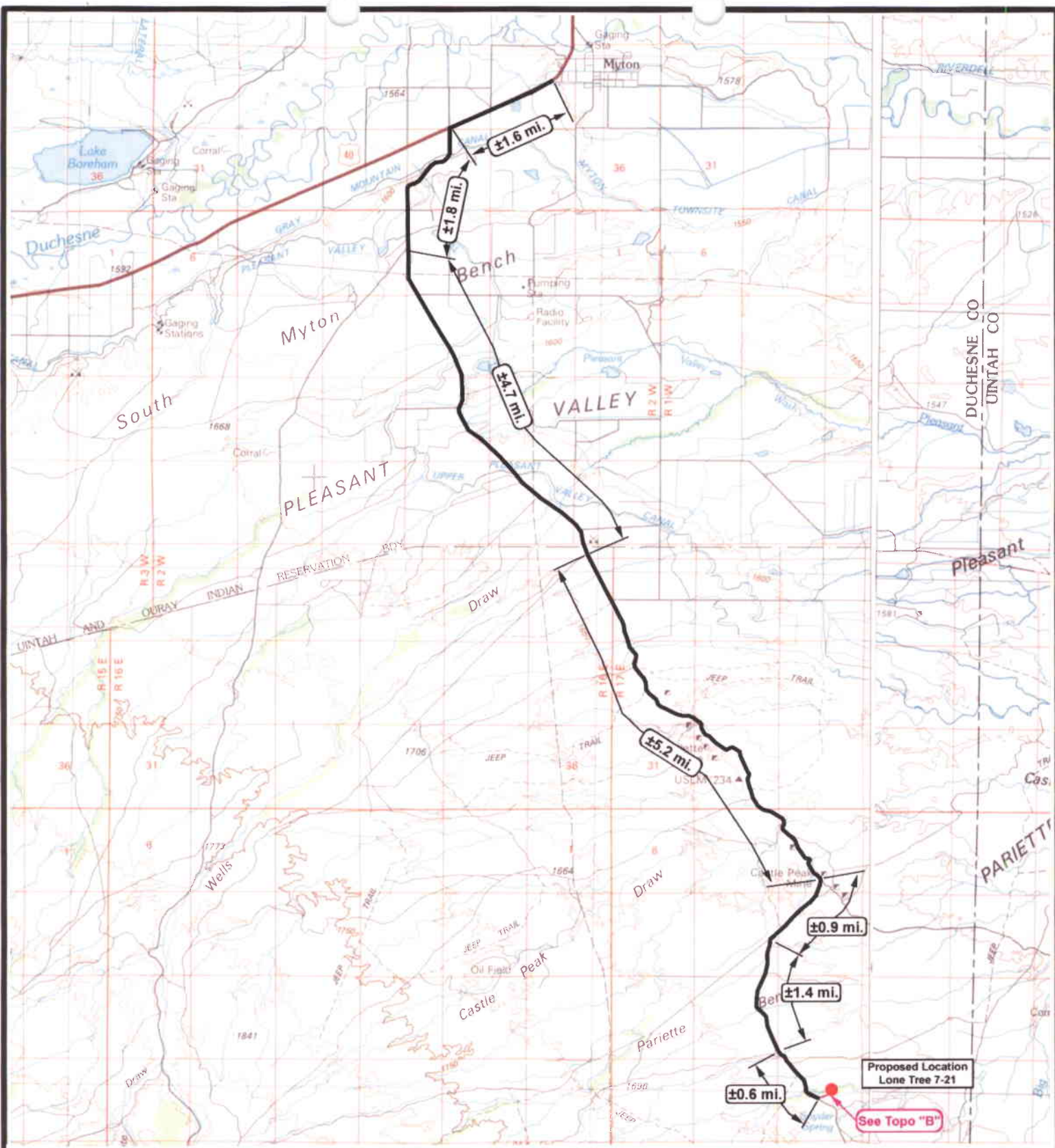
SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 06-26-06

(435) 781-2501

**Tri State**  
**Land Surveying, Inc.**  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078



**NEWFIELD**  
Exploration Company

**Lone Tree 7-21-9-17**  
**SEC. 21, T9S, R17E, S.L.B.&M.**



**Tri-State**  
*Land Surveying Inc.*

(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000

DRAWN BY: mw

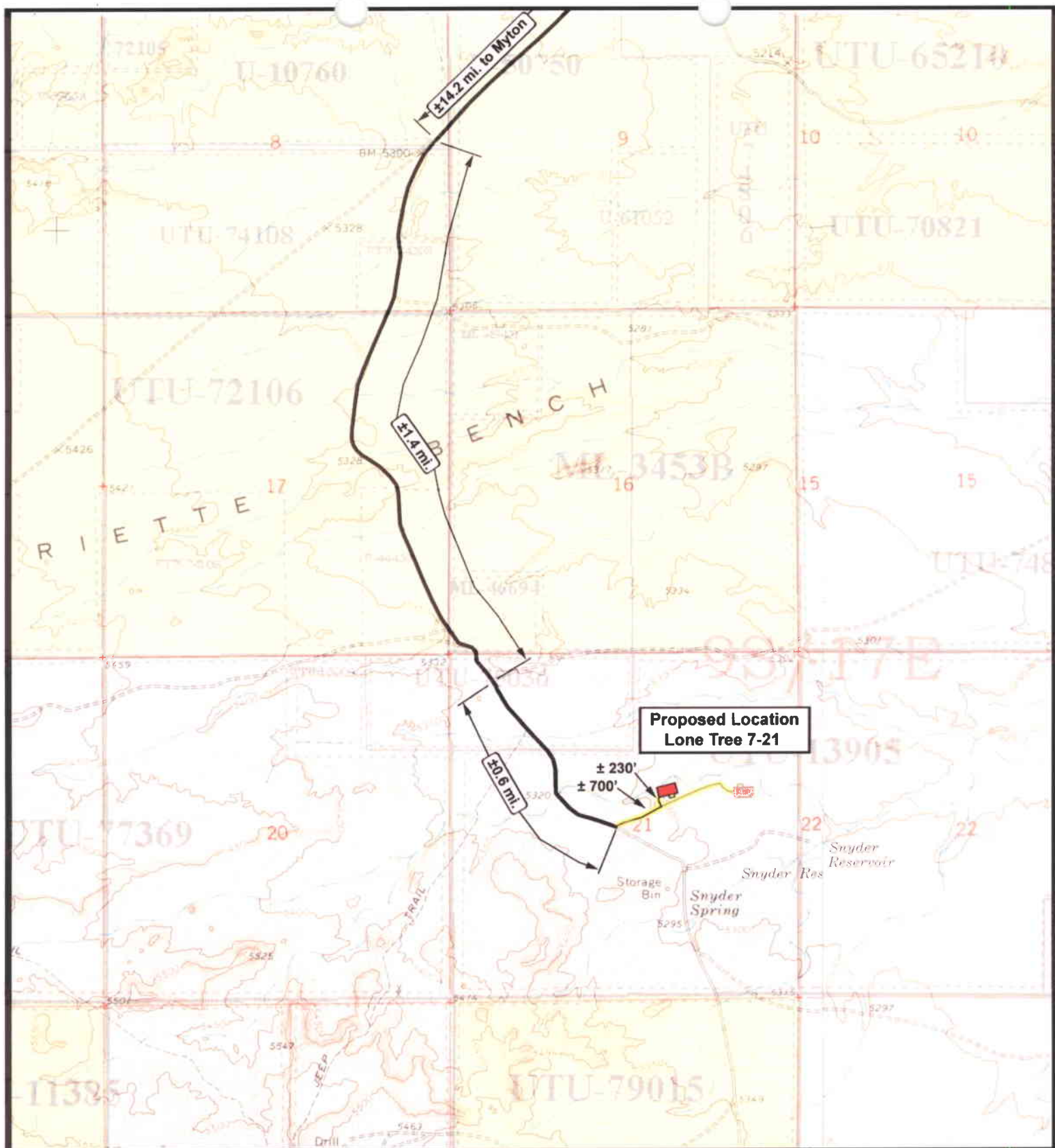
DATE: 06-26-2006

**Legend**

— Existing Road  
— Proposed Access

TOPOGRAPHIC MAP

**"A"**



**NEWFIELD**  
Exploration Company

**Lone Tree 7-21-9-17**  
**SEC. 21, T9S, R17E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501

180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'

DRAWN BY: mw

DATE: 06-26-2006

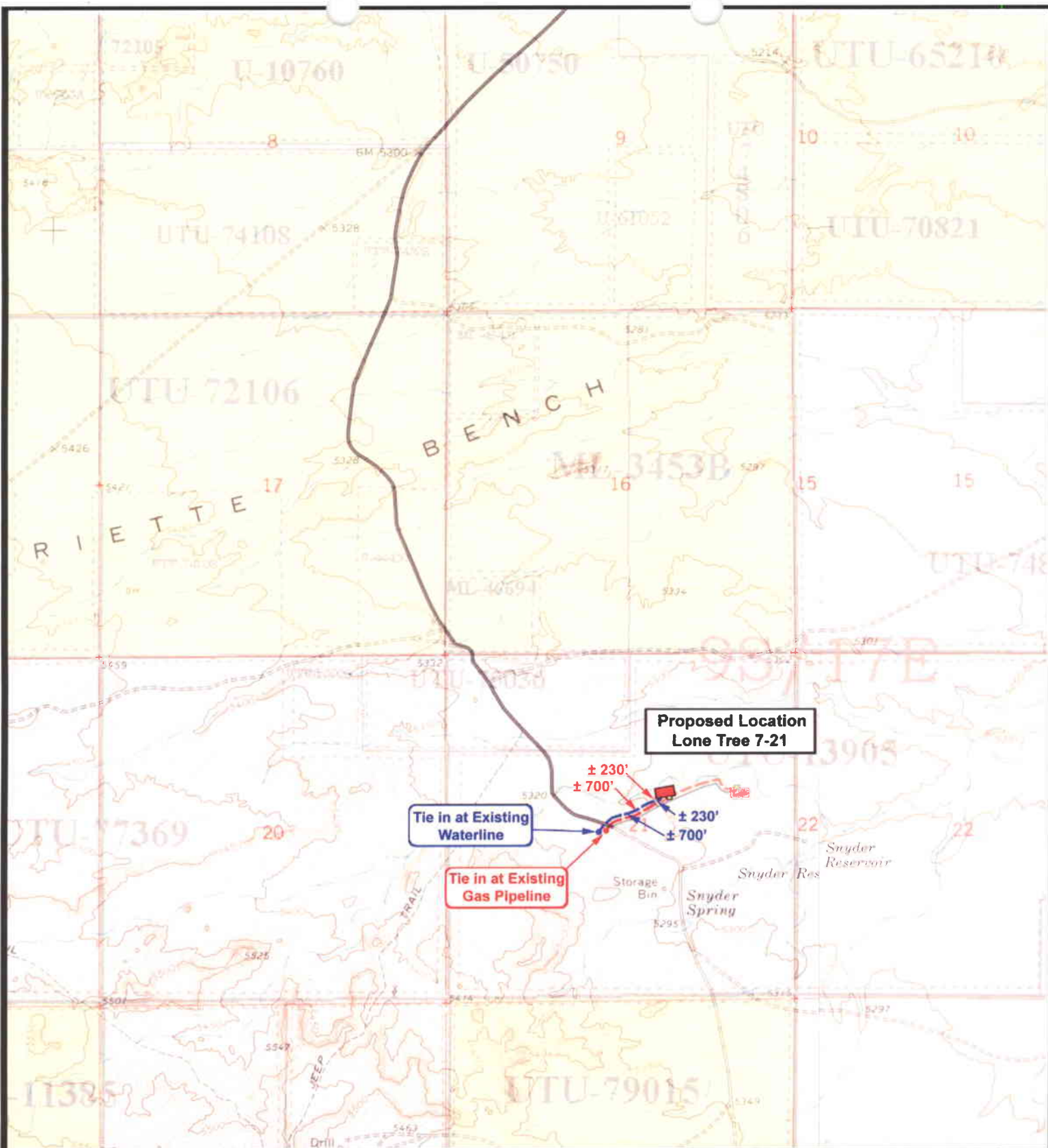
**Legend**

- Existing Road
- Proposed Access

**TOPOGRAPHIC MAP**

**"B"**





**Proposed Location  
Lone Tree 7-21**

**Tie in at Existing  
Waterline**

**Tie in at Existing  
Gas Pipeline**

Storage Bin

Snyder Spring

Snyder Reservoir



**NEWFIELD**  
Exploration Company

**Lone Tree 7-21-9-17  
SEC. 21, T9S, R17E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

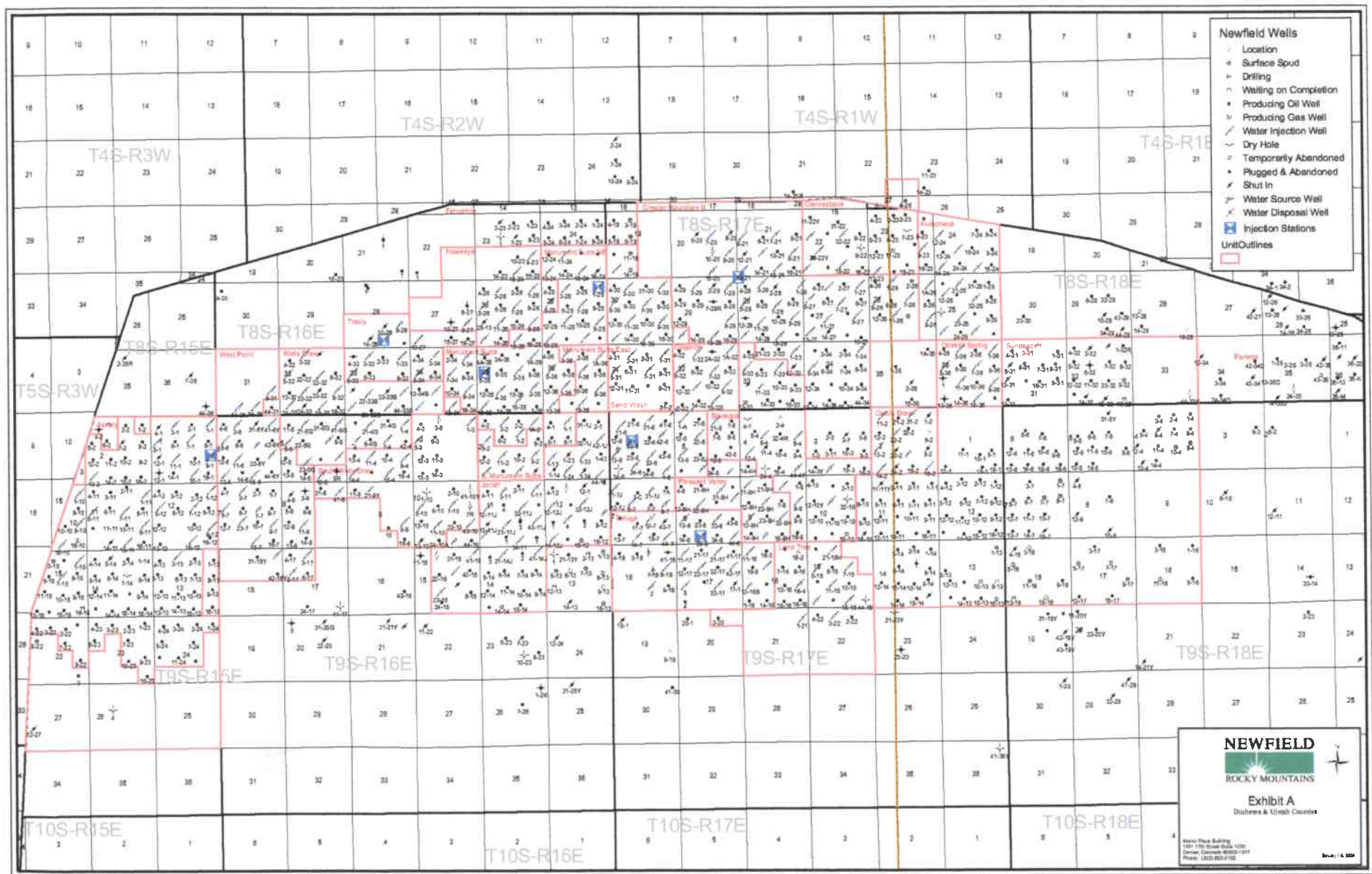
**SCALE: 1" = 2,000'**  
**DRAWN BY: mw**  
**DATE: 06-26-2006**

**Legend**

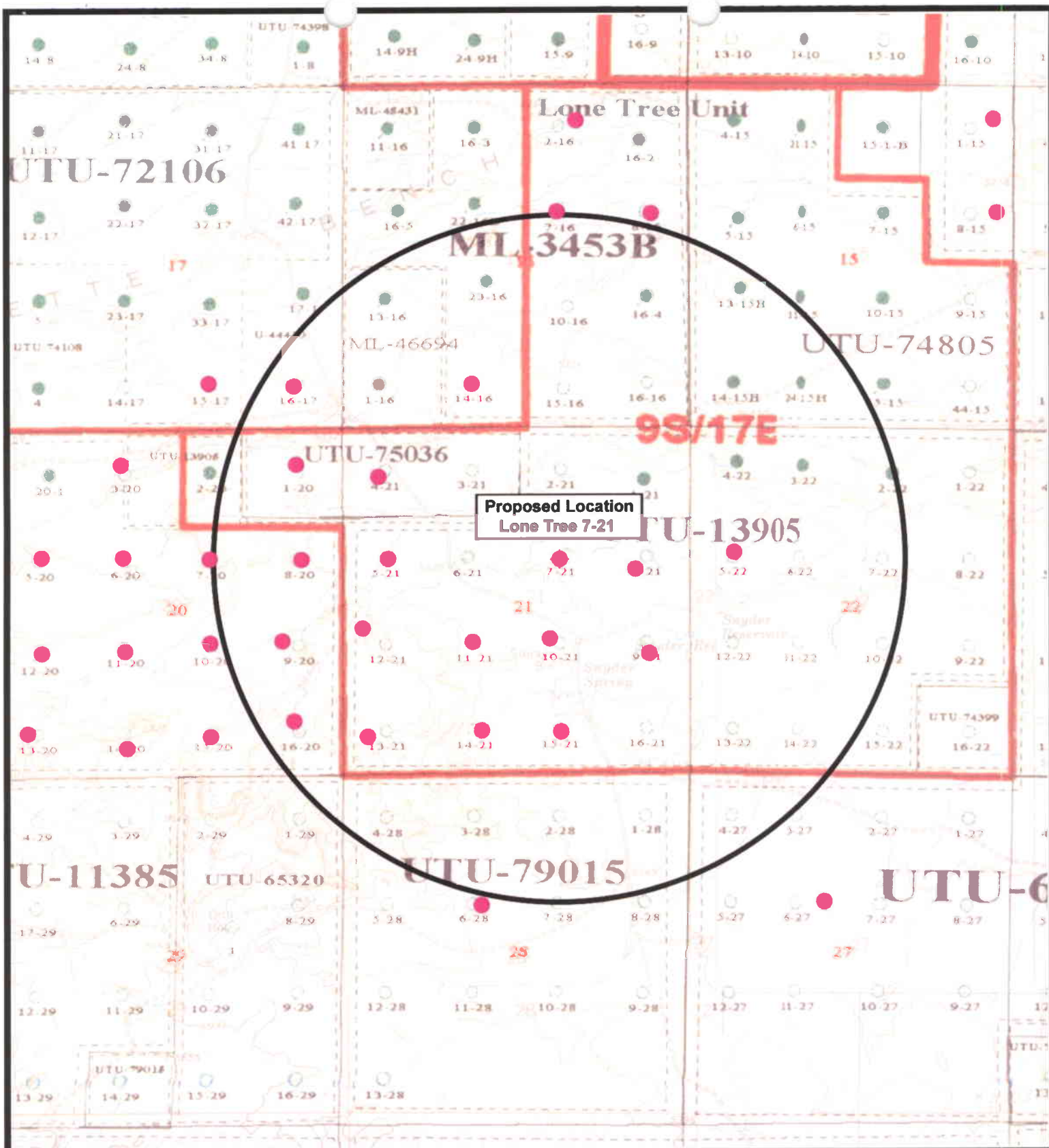
- Roads
- Proposed Gas Line
- Proposed Water Line

**TOPOGRAPHIC MAP**


**"C"**







Proposed Location  
Lone Tree 7-21



**NEWFIELD**  
Exploration Company

**Lone Tree 7-21-9-17**  
**SEC. 21, T9S, R17E, S.L.B.&M.**





**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 06-26-2006

**Legend**

● Location  
○ One-Mile Radius

**Exhibit "B"**

## 2-M SYSTEM

Blowout Prevention Equipment Systems

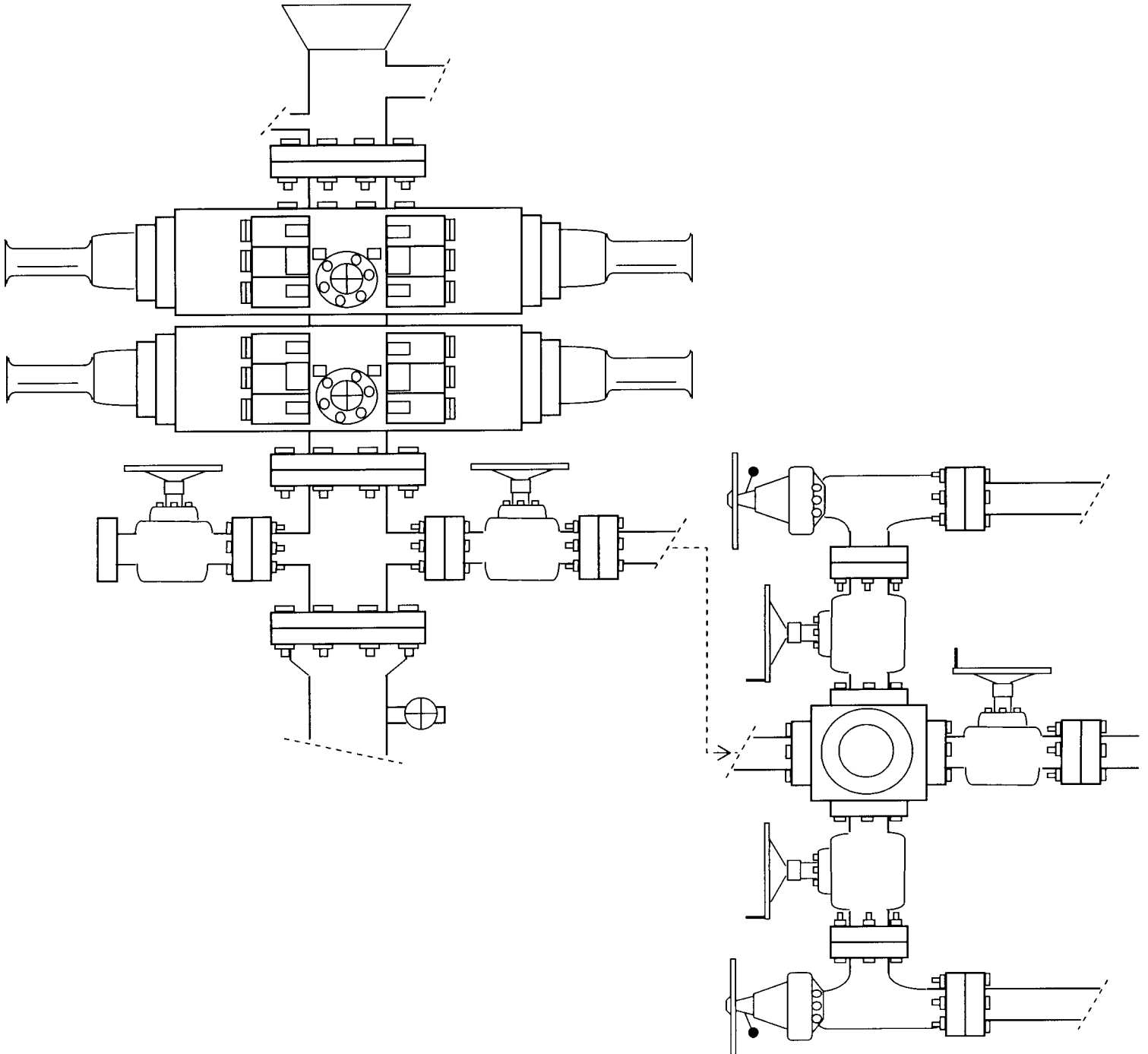


EXHIBIT C



**CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S BLOCK PARCELS  
IN T9S, R17E, SEC. 19, 20, 21 & 22  
DUCHESNE COUNTY, UTAH**

Exhibit "D"

1 of 2

**Katie Simon**

**Prepared For:**

**Bureau of Land Management  
Vernal Field Office**

**Prepared Under Contract With:**

**Newfield Exploration Company  
Route 3 Box 3630  
Myton, Utah 84052**

**Prepared By:**

**Montgomery Archaeological Consultants  
P.O. Box 147  
Moab, Utah 84532**

**MOAC Report No. 04-206**

**June 15, 2005**

**United States Department of Interior (FLPMA)  
Permit No. 05-UT-60122**

**State of Utah Antiquities Project (Survey)  
Permit No. U-05-MQ-0516b**

**NEWFIELD PRODUCTION COMPANY**

**PALEONTOLOGICAL SURVEY OF PROPOSED  
PRODUCTION DEVELOPMENT AREAS,  
DUCHESNE COUNTY, UTAH**

Section 20, T 9 S, R 17 E [entire section excluding the NE 1/4, NE 1/4; NW 1/4, NE 1/4; NE 1/4, NW 1/4; and NW 1/4, NW 1/4]; Section 21, T 9 S, R 17 E [entire section excluding the NE 1/4, NE 1/4], and Section 3, T 9 S, R 16 E, the following parcels [NW 1/4, NE 1/4; SW 1/4, NE 1/4; SE 1/4, NE 1/4; NE 1/4, SE 1/4; NW 1/4, SE 1/4; SW 1/4, SE 1/4 and SE 1/4, SE 1/4].

**REPORT OF SURVEY**

Prepared for:

**Newfield Production Company**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
June 2, 2005

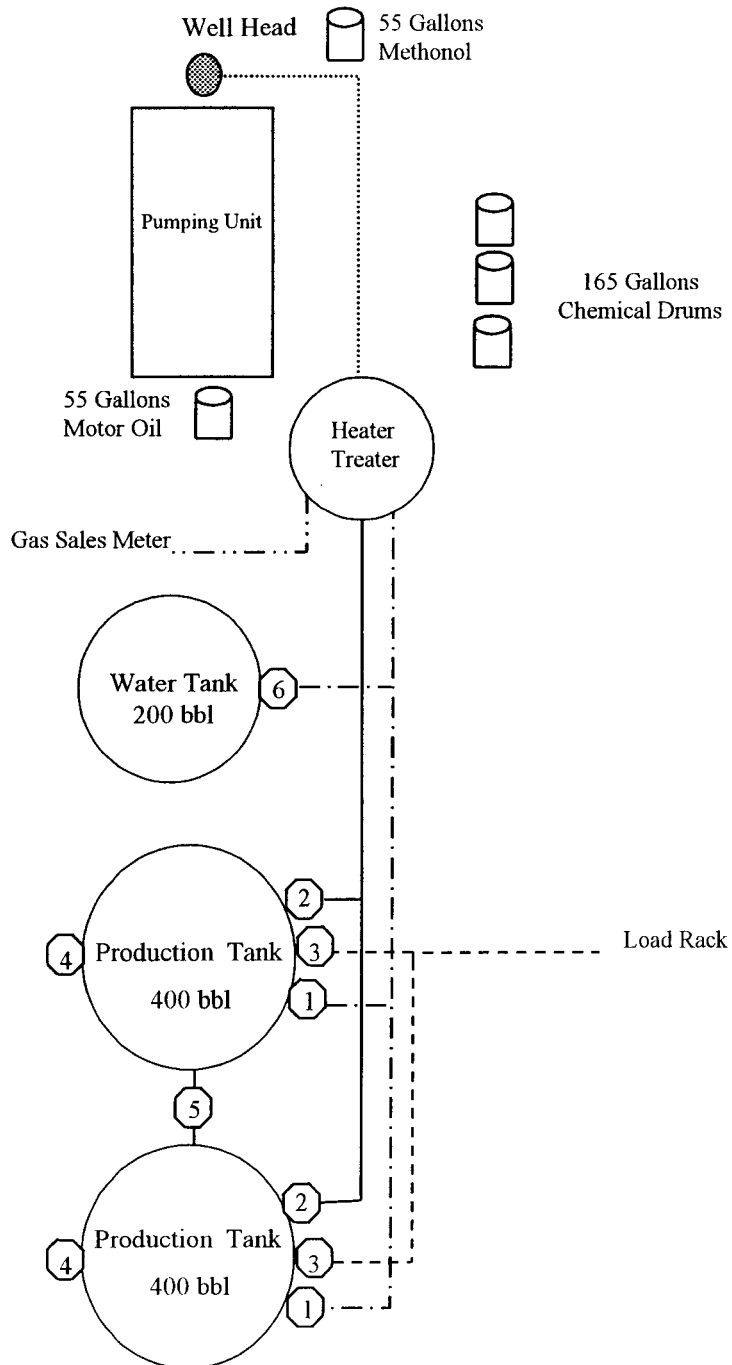
# Newfield Production Company Proposed Site Facility Diagram

Lone Tree Federal 7-21-9-17

SW/NE Sec. 21, T9S, R17E

Duchesne County, Utah

UTU-13905



## Legend

<b>Emulsion Line</b>	.....
<b>Load Rack</b>	-----
<b>Water Line</b>	- . - . - . - . - .
<b>Gas Sales</b>	- . - . - . - . - .
<b>Oil Line</b>	—————

## Production Phase:

- 1) Valves 1, 3, and 4 sealed closed
- 2) Valves 2, 5, and 6 sealed open

## Sales Phase:

- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

## Draining Phase:

- 1) Valves 1 and 6 open

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 08/25/2006

API NO. ASSIGNED: 43-013-33288

WELL NAME: LONE TREE FED 7-21-9-17

OPERATOR: NEWFIELD PRODUCTION ( N2695 )

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

**PROPOSED LOCATION:**

SWNE 21 090S 170E

SURFACE: 2132 FNL 1941 FEL

BOTTOM: 2132 FNL 1941 FEL

COUNTY: DUCHESNE

LATITUDE: 40.01797 LONGITUDE: -110.0083

UTM SURF EASTINGS: 584635 NORTHINGS: 4430012

FIELD NAME: MONUMENT BUTTE ( 105 )

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-13905

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

**RECEIVED AND/OR REVIEWED:**

☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UTB000192 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. MUNICIPAL )  
☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

**LOCATION AND SITING:**

\_\_\_\_ R649-2-3.  
Unit: LONE TREE (GREEN RIVER)  
\_\_\_\_ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
\_\_\_\_ R649-3-3. Exception  
☒ Drilling Unit  
Board Cause No: 228-5  
Eff Date: 8-26-1998  
Siting: Separate General Siting  
\_\_\_\_ R649-3-11. Directional Drill

COMMENTS:

See Separate File

STIPULATIONS:

1- See ref Approval

T9S R17E

LONE TREE FED  
4-21-9-17

LONE TREE FED  
3-21-9-17

LONE TREE FED  
2-21-9-17

S PLEASANT  
VALLEY FED 1-21

LONE TREE FED  
5-21-9-17

LONE TREE FED  
6-21-9-17

LONE TREE FED  
7-21-9-17

LONE TREE FED  
8-21-9-17

21

LONE TREE FED  
12-21-9-17

NGC FEDERAL  
33-21-H

LONE TREE FED  
11-21-9-17

LONE TREE FED  
9-21-9-17

## MONUMENT BUTTE FIELD LONE TREE (GR) UNIT

CAUSE: 228-5 / 8-26-1998

LONE TREE FED  
16-21-9-17

LONE TREE FED  
13-21-9-17

OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 21 T.9S R. 17E

FIELD: MONUMENT BUTTE (105)

COUNTY: UINTAH

CAUSE: 228-5 / 8-26-1998

### Field Status

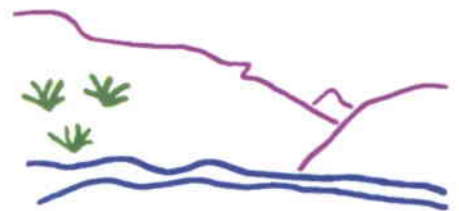
- ☒ ABANDONED
- ☒ ACTIVE
- ☒ COMBINED
- ☒ INACTIVE
- ☒ PROPOSED
- ☒ STORAGE
- ☒ TERMINATED

### Unit Status

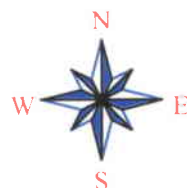
- ☒ EXPLORATORY
- ☒ GAS STORAGE
- ☒ NF PP OIL
- ☒ NF SECONDARY
- ☒ PENDING
- ☒ PI OIL
- ☒ PP GAS
- ☒ PP GEOTHERML
- ☒ PP OIL
- ☒ SECONDARY
- ☒ TERMINATED

### Wells Status

- ☒ GAS INJECTION
- ☒ GAS STORAGE
- ☒ LOCATION ABANDONED
- ☒ NEW LOCATION
- ☒ PLUGGED & ABANDONED
- ☒ PRODUCING GAS
- ☒ PRODUCING OIL
- ☒ SHUT-IN GAS
- ☒ SHUT-IN OIL
- ☒ TEMP. ABANDONED
- ☒ TEST WELL
- ☒ WATER INJECTION
- ☒ WATER SUPPLY
- ☒ WATER DISPOSAL
- ☒ DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY  
DATE: 29-AUGUST-2006

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

August 29, 2006

### Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2006 Plan of Development Lone Tree Unit, Duchesne County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2006 within the Lone Tree Unit, Duchesne County, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ Green River)		
43-013-33281	Lone Tree Fed 2-21-9-17 Sec 21 T09S R17E 0578 FNL 1943 FEL	
43-013-33282	Lone Tree Fed 16-21-9-17 Sec 21 T09S R17E 0683 FSL 0668 FEL	
43-013-33283	Lone Tree Fed 13-21-9-17 Sec 21 T09S R17E 0556 FSL 0415 FWL	
43-013-33284	Lone Tree Fed 12-21-9-17 Sec 21 T09S R17E 2232 FSL 0252 FWL	
43-013-33285	Lone Tree Fed 11-21-9-17 Sec 21 T09S R17E 1911 FSL 2156 FWL	
43-013-33286	Lone Tree Fed 9-21-9-17 Sec 21 T09S R17E 1809 FSL 0560 FEL	
43-013-33287	Lone Tree Fed 8-21-9-17 Sec 21 T09S R17E 2081 FNL 0827 FEL	
43-013-33288	Lone Tree Fed 7-21-9-17 Sec 21 T09S R17E 2132 FNL 1941 FEL	
43-013-33289	Lone Tree Fed 6-21-9-17 Sec 21 T09S R17E 1832 FNL 2002 FWL	
43-013-33290	Lone Tree Fed 5-21-9-17 Sec 21 T09S R17E 1975 FNL 0658 FWL	
43-013-33291	Lone Tree Fed 4-21-9-17 Sec 21 T09S R17E 0701 FNL 0557 FWL	
43-013-33292	Lone Tree Fed 3-21-9-17 Sec 21 T09S R17E 0799 FNL 1965 FWL	

Our records indicate the 13-21-9-17 and the 12-21-9-17 are closer than 460 feet from the Lone Tree Unit boundary.

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File – Lone Tree Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron



## State of Utah

### Department of Natural Resources

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas & Mining

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

August 29, 2006

Newfield Production Company  
Rt. #3, Box 3630  
Myton, UT 84052

Re: Lone Tree Federal 7-21-9-17 Well, 2132' FNL, 1941' FEL, SW NE, Sec. 21,  
T. 9 South, R. 17 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33288.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office

**Operator:** Newfield Production Company  
**Well Name & Number** Lone Tree Federal 7-21-9-17  
**API Number:** 43-013-33288  
**Lease:** UTU-13905

**Location:** SW NE                      **Sec.** 21                      **T.** 9 South                      **R.** 17 East

### **Conditions of Approval**

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.



RECEIVED

AUG 25 2006

ELM VERNAL, UTAH

Form 3160-3  
(September 2001)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

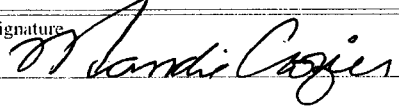
5. Lease Serial No. UTU-13905	
6. If Indian, Allottee or Tribe Name N/A	
7. If Unit or CA Agreement, Name and No. Lone Tree	
8. Lease Name and Well No. Lone Tree Federal 7-21-9-17	
9. API Well No. 43-013-33288	
10. Field and Pool, or Exploratory Monument Butte	
11. Sec., T., R., M., or Blk. and Survey or Area SW/NE Sec. 21, T9S R17E	
12. County or Parish Duchesne	13. State UT
14. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 2132' f/lease, 2831' f/unit	15. No. of Acres in lease 1200.00
16. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1165'	17. Proposed Depth 5650'
18. Elevations (Show whether DF, KDB, RT, GL, etc.) 5301' GL	19. Approximate date work will start* 4th Quarter 2006
20. BLM/BIA Bond No. on file UTB000192	
21. Estimated duration Approximately seven (7) days from spud to rig release.	

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone	
2. Name of Operator Newfield Production Company	
3a. Address Route #3 Box 3630, Myton UT 84052	3b. Phone No. (include area code) (435) 646-3721
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SW/NE 2132' FNL 1941' FEL At proposed prod. zone	
14. Distance in miles and direction from nearest town or post office* Approximatley 15.8 miles southeast of Myton, Utah	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 2132' f/lease, 2831' f/unit	16. No. of Acres in lease 1200.00
17. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1165'	18. Proposed Depth 5650'
19. Elevations (Show whether DF, KDB, RT, GL, etc.) 5301' GL	20. Approximate date work will start* 4th Quarter 2006
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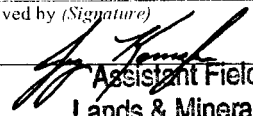
24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 8/23/06
--	--	-----------------

Title  
Regulatory Specialist

Approved by (Signature) 	Name (Printed/Typed) TERRY KUCZEK	Date 3-30-2007
--	--------------------------------------	-------------------

Title  
Assistant Field Manager  
Lands & Mineral Resources

Office  
VERNAL FIELD OFFICE

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

**CONDITIONS OF APPROVAL ATTACHED**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

RECEIVED

APR 09 2007

NOTICE OF APPROVAL

DIV. OF OIL, GAS & MINING

UDOGM

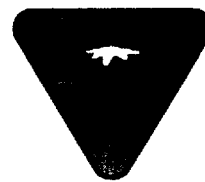
07CX50052A

No NDS



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE  
170 South 500 East VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Newfield Production Company  
Well No: Lone Tree Federal 7-21-9-17  
API No: 43-013-33288

Location: SWNE, Sec. 21, T9S, R17E  
Lease No: UTU-13905  
Agreement: Lone Tree Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
NRS/Enviro Scientist:	Paul Buhler	(435) 781-4475	(435) 828-4029
NRS/Enviro Scientist:	Karl Wright	(435) 781-4484	
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	
NRS/Enviro Scientist:	Melissa Hawk	(435) 781-4476	(435) 828-7381
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Jannice Cutler	(435) 781-3400	
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	

Fax: (435) 781-4410

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a one-year period. An additional year extension may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

**General Surface COA**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A report will be prepared by a BLM permitted paleontologist and submitted to the AO at the completion of surface disturbing activities.

**LEASE STIPULATIONS AND NOTICES:**

- Lease Notices (field review and RMP):
  1. Lessee/operator is given notice the area has been identified as containing Golden Eagle habitat. Modifications may be required in the Surface Use Plan to protect the Golden and/or their habitat from surface disturbing activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.
- Adhere to Executive Order 5327 of April 15, 1930, stipulations for lands in oil shale withdrawal.
- Comments:
  1. The proposed area contains poor Mountain Plover habitat due to dense vegetation and many rolling hills.

**CONDITIONS OF APPROVAL:**

- All applicable local, state, and/or federal laws, regulations, and/or statutes will be complied with.
- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of four inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- The access road will be crowned and ditched. Flat-bladed roads are not allowed.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.

- Prevent fill and stock piles from entering drainages.
- The reserve pit will be lined with a 12 ml or greater liner and felt prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- If paleontologic or cultural materials are uncovered during construction, the operator shall immediately stop work that might further disturb or move such materials and contact the Authorized Officer (AO) within 48 hours. A determination will be made by the AO as to necessary mitigation for the discovered paleontologic/cultural material.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- **Interim Reclamation:**
  - Where possible, strip six inches of topsoil from the location as shown on the cut sheet. After the well is completed, and the reserve pit is closed, the topsoil shall be spread and re-contoured on the location and immediately seeded with the seed mix below. Topsoil shall not be piled deeper than 2 feet.
  - The interim seed mix for this location shall be:

Crested wheatgrass ( <i>Agropyron cristatum</i> ):	4 lbs/acre
Needle and Threadgrass ( <i>Hesperostipa comata</i> ):	4 lbs/acre
Indian Ricegrass ( <i>Achnatherum hymenoides</i> ):	4 lbs/acre

    - All pounds are in pure live seed.
    - Rates are set for drill seeding; double the rate if broadcasting.
    - Reseeding may be required if initial seeding is not successful.
  - Certified weed free seed and straw shall be used for final and interim and reclamation. The operator shall submit a receipt with certification for the seed and any straw used on location.
  - The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed it shall be re-contoured, then the area shall be seeded in the same manner as the topsoil.
  - There shall be no primary or secondary weeds in the seed mixture.
  - The above listed seed mix shall be used to seed all unused portions of the pad including the topsoil and the stock piles, and the reserve pits. Re-seeding may be required if the first seeding is not successful.
  - The seed shall be drilled or disked into the ground or hand broadcast onto the ground. Planting depth shall not exceed one-half inch using a seed drill. If the seed is hand broadcast then the seed mixtures shall be doubled and the area raked or chained to cover the seed. Seeding shall be conducted in the fall.
- The operator will be responsible for treatment and control of invasive and noxious weeds.

- Once the location is plugged and abandoned, it shall be recontoured to natural topography, topsoil shall be respread , and the entire location shall be seeded with a seed mix recommended by the AO (preferably of native origin). Seed application will follow all guidelines in the interim reclamation bullet statement above. If reclamation seeding shall take place using the broadcast method, the seed at a minimum will be walked into the soil with a dozer immediately after the seeding is completed.
- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.

## ***DOWNHOLE CONDITIONS OF APPROVAL***

### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

- None.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or



data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**UTU-13905**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**LONE TREE**

8. Well Name and No.

**LONE TREE FEDERAL 7-21-9-17**

9. API Well No.

**43-013-33288**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UT.**

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**NEWFIELD PRODUCTION COMPANY**

3. Address and Telephone No.

**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**2132 FNL 1941 FEL SW/NE Section 21, T9S R17E**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**TYPE OF SUBMISSION**

☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

**TYPE OF ACTION**

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Permit Extension**

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Newfield Production Company requests to extend the Permit to Drill this well for one year. The original approval date was 8/29/06 (expiration 8/29/07).

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 08-14-07  
By: [Signature]

8-15-07  
RM

AUG 14 2007

DN OF OL, CHS, 1000

14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title Regulatory Specialist Date 8/10/2007  
Mandie Crozier

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

CC: Utah DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(this form should accompany the Sundry Notice requesting permit extension)

*[Faint, illegible handwritten notes]*

## DIVISION OF OIL, GAS AND MINING

### **SPUDDING INFORMATION**

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: LONE TREE FED 7-21-9-17

Api No: 43-013-33288 Lease Type: FEDERAL

Section 21 Township 09S Range 17E County DUCHESNE

Drilling Contractor ROSS DRILLING RIG # 21

### **SPUDDED:**

Date 09/17/07

Time 10:00 AM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by JOHNNY DAVIS

Telephone # (435) 823-3610

Date 09/17/07 Signed CHD

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR: NEWFIELD PRODUCTION COMPANY  
ADDRESS: RT. 3 BOX 3630  
MYTON, UT 84052

OPERATOR ACCT. NO. N2695

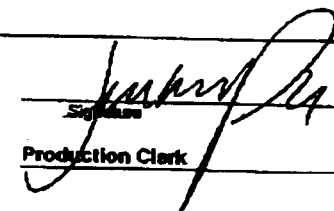
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG			
A	99999	16365	4301333001	FEDERAL 15-18-9-16	SWSE	18	9S	16E	DUCHESNE	9/14/2007	9/25/07
WELL 1 COMMENTS: GRPV											
B	99999	12417	4301333287	LONE TREE FED 8-21-9-17	SENE	21	9S	17E	DUCHESNE	9/15/2007	9/25/07
WELL 2 COMMENTS: GRPV											
B	99999	12417	4301333288	LONE TREE FED 7-21-9-17	SWNE	21	9S	17E	DUCHESNE	9/17/2007	9/25/07
WELL 3 COMMENTS: GRPV											
A	99999	16366	4301333701	HANCOCK 4-20-4-1	NWNW	20	4S	1E	DUCHESNE	9/18/2007	9/25/07
WELL 4 COMMENTS: GRPV											
WELL 5 COMMENTS:											
WELL 6 COMMENTS:											

ACTION CODES (See instructions on back of form)  
A - new entry for new well (single well only)  
B - well to existing entry (group or unit well)  
C - from one existing entry to another existing entry  
D - well from one existing entry to a new entry  
E - Pair (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

RECEIVED  
SEP 20 2007

DIV. OF OIL, GAS & MINING

  
Signature  
Jentri Park  
Production Clerk  
09/20/07  
Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.  
USA UTU-13905

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or  
LONE TREE UNIT

8. Well Name and No.  
LONE TREE FEDERAL 7-21-9-17

9. API Well No.  
4301333288

10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE

11. County or Parish, State  
DUCHESNE, UT

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2132 FNL 1941 FEL  
SWNE Section 21 T9S R17E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Spud Notice _____
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 9/17/07 MIRU Ross rig # 21. Spud well @ 10:00 am. Drill 320' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 322.06 KB. On 9/22/07 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 0 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and  
correct (Printed/ Typed)

Jim Smith  
Signature

Title

Drilling Foreman

Date

09/24/2007

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or  
certify that the applicant holds legal or equitable title to those rights in the subject lease  
which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

RECEIVED  
SEP 27 2007

DIV. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 322.06

LAST CASING 8 5/8" set @ 322.06'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 320' LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR Newfield Production Company  
 WELL Federal 7-21-9-17  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Ross Rig # 21

## LOG OF CASING STRING:

LESS CUT OFF STRING								
PIECES	OD	ITEM - MAKE - DESCRIPTION		WT / FT	GRD	THREAD	CONDT	LENGTH
		Shoe Joint 44.93'						
		WHI - 92 csg head				8rd	A	0.95
7	8 5/8"	Maverick ST&C csg		24#	J-55	8rd	A	312.58
		GUIDE shoe				8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING LESS CUT OFF PIECE PLUS DATUM TO T/CUT OFF CSG CASING SET DEPTH  } COMPARE				314.43
TOTAL LENGTH OF STRING		314.43	7					2
LESS NON CSG. ITEMS		1.85						12
PLUS FULL JTS. LEFT OUT		0						322.06
TOTAL		312.58	7					
TOTAL CSG. DEL. (W/O THRDS)		312.58	7					
TIMING		1ST STAGE						
BEGIN RUN CSG.			9/18/2007	GOOD CIRC THRU JOB				Yes
CSG. IN HOLE			9/18/2007	Bbls CMT CIRC TO SURFACE				0
BEGIN CIRC		8:05 AM	9/22/2007	RECIPROCATED PIPE FOR				N/A
BEGIN PUMP CMT		8:15 AM	9/22/2007					
BEGIN DSPL. CMT		8:25 AM	9/22/2007	BUMPED PLUG TO				500 PSI
PLUG DOWN		8:29 AM	9/22/2007					
CEMENT USED		CEMENT COMPANY- B. J.						
STAGE	# SX	CEMENT TYPE & ADDITIVES						
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield						
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING					
Centralizers - Middle first, top second & third for 3								

COMPANY REPRESENTATIVE Jim Smith DATE 9/22/2007

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address

Route 3 Box 3630

Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2132 FNL 1941 FEL

SWNE Section 21 T9S R17E

5. Lease Serial No.

USA UTU-13905

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

LONE TREE UNIT

8. Well Name and No.

LONE TREE FEDERAL 7-21-9-17

9. API Well No.

4301333288

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Mandie Crozier

Signature

Title

Regulatory Specialist

Date

10/26/2007

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

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OCT 29 2007

DIV. OF OIL, GAS & MINING



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

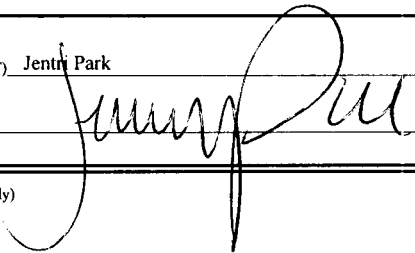
1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-13905
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME: LONE TREE UNIT
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 2132 FNL 1941 FEL		8. WELL NAME and NUMBER: LONE TREE FEDERAL 7-21-9-17
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWNE, 21, T9S, R17E		9. API NUMBER: 4301333288
		10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
		COUNTY: DUCHESNE
		STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - Weekly Status Report
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  11/07/2007			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 10/25/07. attached is a daily completion status report.

NAME (PLEASE PRINT) Jentry Park	TITLE Production Clerk
SIGNATURE 	DATE 11/07/2007
(This space for State use only)	

RECEIVED

NOV 16 2007

DIV. OF OIL, GAS & MINING

## Daily Activity Report

Format For Sundry

**LONETREE 7-21-9-17****8/1/2007 To 12/30/2007****10/15/2007 Day: 1****Completion**

Rigless on 10/14/2007 - Instal 5K frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5567' & cement top @ 150'. Perforate stage #1, CP4 sds @ 5246-76' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°) w/ 4 spf for total of 120 shots. 133 bbls EWTR. SIFN.

**10/22/2007 Day: 2****Completion**

Rigless on 10/21/2007 - RU BJ Services "Ram Head" frac flange. RU BJ & frac stage #1, CP4 sds down casing w/ 129,904#'s of 20/40 sand in 935 bbls of Lightning 17 frac fluid. Open well w/ 0 psi on casing. Perfs broke down @ 3018 psi. Pump 30 gals of Techna Hib. Treated @ ave pressure of 1843 w/ ave rate of 23 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2240. 1068 bbls EWTR. Leave pressure on well. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" (6K) composite flow through frac plug & 10' perf gun. Set plug @ 5190'. Perforate CP1 sds @ 5098-5108' w/ 3-1/8" Slick Guns (23 gram, .37" HE, 90°) w/ 4 spf for total of 40 shots. RU BJ & perfs won't break down. RIH & spot 10 gals of 15% HCL acid on perfs. RU BJ & frac stage #2 w/ 22,391#'s of 20/40 sand in 322 bbls of Lightning 17 frac fluid. Open well w/ 1585 psi on casing. Perfs broke down @ 1890 psi. Pump 30 gals of Techna Hib. Treated @ ave pressure of 2057 w/ ave rate of 23 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2125. 1390 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 6' perf gun. Set plug @ 4810'. Perforate A3 sds @ 4702-08', A1 sds @ 4656-63', A5 sds @ 4598-4608' w/ 4 spf for total of 92 shots. RU BJ & frac stage #3 w/ 88,336#'s of 20/40 sand in 684 bbls of Lightning 17 frac fluid. Open well w/ 1600 psi on casing. Perfs broke down @ 2132 psi. Pump 30 gals of Techna Hib. Treated @ ave pressure of 2055 w/ ave rate of 23.1 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1814. 2074 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 6' perf gun. Set plug @ 4430'. Perforate D2 sds @ 4314-20' w/ 4 spf for total of 24 shots. RU BJ & frac stage #4 w/ 32,824#'s of 20/40 sand in 389 bbls of Lightning 17 frac fluid. Open well w/ 1548 psi on casing. Perfs broke down @ 4087 psi. Pump 30 gals of Techna Hib. Treated @ ave pressure of 2072 w/ ave rate of 23 bpm w/ 6.5 ppg of sand. ISIP was 1895. 2463 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 4 hours & died w/ 280 bbls rec'd. SIFN.

**10/24/2007 Day: 3****Completion**

Western #2 on 10/23/2007 - MIRUSU. Open well w/ 0 psi on casing. RD Cameron BOP's & 5K frac head. Instal 3K production tbg head & Schaefer BOP's. PU 4-3/4" bit (used Chomp) & bit sub. Tally & pickup new J-55, 2-7/8", 6.5# tbg of rack to tag sand @ 4064' w/ 130 jts tbg. SIFN.

**10/25/2007 Day: 4****Completion**

Western #2 on 10/24/2007 - Open well w/ 0 psi on casing. TIH w/ tbg to sand @ 4373'. C/O to plug @ 4430'. Drlg out plug #1. TIH w/ tbg to tag sand @ 4724'. C/O to plug @ 4810'. Drlg out plug #2. TIH w/ tbg to tag plug @ 5190'. Drlg out plug #3.

TIH w/ tbg to tag sand @ 5439'. C/O to PBTD @ 5611'. LD 2 jts tbg. RU swab equipment. Made 12 runs to rec'd 148 bbls fluid. IFL was surface. FFL was 2360'. Last run showed trace of oil w/ no sand. SIFN.

10/26/2007 Day: 5

Completion

Western #2 on 10/25/2007 - Open well w/ 0 psi on casing. TIH w/ tbg to PBTD @ 5611', no new and. TOOH w/ tbg. LD bit & bit sub. TIH w/ NC, 2 jts tbg, SN, 2 jt tbg, TA (CDI new 45,000# shear), 167 jts tbg. RD BOP's. Set TA @ 5218' in 16,000#'s tension w/ SN @ 5282', & EOT @ 5345'. Flush tbg w/ 60 bbls water. Pickup & prime pump. TIH w/ 2-1/2" x 1-1/2" x 12' x 16' RHAC (new CDI pump) 187"SL, 6- 1-1/2" weight rods, 20- 3/4" guidd rods, 85- 3/4" slick rods, 99- 3/4" guided rods, 2',4',6',8' x 3/4" pony rod, 1-1/2" x 26' polish rod. Space pump. Test tbg & pump to 800 psi w/ pump unit. RDMOSU. POP @ 5PM w/ 86"SL @ 4 SPM. Final Report.

Pertinent Files: Go to File List

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

## 1a. TYPE OF WORK

OIL WELL ☒ GAS WELL ☐ DRY ☐ Other \_\_\_\_\_

## 1b. TYPE OF WELL

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other \_\_\_\_\_

## 2. NAME OF OPERATOR

Newfield Exploration Company

## 3. ADDRESS AND TELEPHONE NO.

1401 17th St. Suite 1000 Denver, CO 80202

## 4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\*

At Surface 2132' FNL &amp; 1941' FEL (SW/NE) Sec. 21, T9S, R17E

At top prod. Interval reported below

At total depth

14. API NO.

43-013-33288

DATE ISSUED

08/29/07

## 9. WELL NO.

43-013-33288

## 10. FIELD AND POOL OR WILDCAT

Monument Butte

## 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 21, T9S, R17E

## 12. COUNTY OR PARISH

Duchesne

## 13. STATE

UT

## 15. DATE SPUDDED

09/17/07

## 16. DATE T.D. REACHED

10/01/07

## 17. DATE COMPL. (Ready to prod.)

10/25/07

## 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

5301' GL

## 19. ELEV. CASINGHEAD

5313' KB

## 20. TOTAL DEPTH, MD &amp; TVD

5650'

## 21. PLUG BACK T.D., MD &amp; TVD

5611'

## 22. IF MULTIPLE COMPL., HOW MANY\*

## 23. INTERVALS DRILLED BY

-----&gt;

## ROTARY TOOLS

X

## CABLE TOOLS

## 24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*

Green River 4314'-5276'

## 25. WAS DIRECTIONAL SURVEY MADE

No

## 26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Induction Guard, SP, Compensated Density, Compensated Neutron, GR, Caliper, Cement Bond Log

## 27. WAS WELL CORED

No

## 28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	322'	12-1/4"	To surface with 160 sx Class "G" cmt	
5-1/2" - J-55	15.5#	5651'	7-7/8"	300 sx Premite II and 400 sx 50/50 Poz	

## 29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @	TA @
						5345'	5219'

## 31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	SPF/NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(CP4) 5246'-5276'	.49"	4/120	5246'-5276'	Frac w/ 129,904# 20/40 sand in 935 bbls fluid
(CP1) 5098'-5108'	.37"	4/40	5098'-5108'	Frac w/ 22,391# 20/40 sand in 322 bbls fluid
(.5) 4702'-4708', 4565'-4663', 4598'-4608'	.37"	4/92	4598'-4708'	Frac w/ 88,336# 20/40 sand in 864 bbls fluid
(D2) 4314'-4320'	.37"	4/24	4314'-420'	Frac w/ 32,824# 20/40 sand in 389 bbls fluid

## 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DATE FIRST PRODUCTION 10/25/07		PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) 2-1/2" x 1-1/2" x 20' RHAC SM Plunger Pump					WELL STATUS (Producing or shut-in) PRODUCING	
DATE OF TEST 10 day ave	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD ----->	OIL--BBL. 107	GAS--MCF. 0	WATER--BBL. 12		GAS-OIL RATIO 0
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE ----->	OIL-BBL.	GAS--MCF.	WATER--BBL.		OIL GRAVITY-API (CORR.)	

## 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold &amp; Used for Fuel

## 35. LIST OF ATTACHMENTS

DIV. OF OIL, GAS &amp; MINING

## 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Jenri Park

TITLE

Production Clerk

DATE

11/15/2007

\*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof, cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);					38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.		NAME	MEAS. DEPTH	TOP VERT. DEPTH TRUE
			Well Name Lone Tree Federal 7-21-9-17		Garden Gulch Mkr	3270'	
					Garden Gulch 1	3460'	
					Garden Gulch 2	3574'	
					Point 3 Mkr	3821'	
					X Mkr	4072'	
					Y-Mkr	4106'	
					Douglas Creek Mkr	4229'	
					BiCarbonate Mkr	4454'	
					B Limestone Mkr	4599'	
					Castle Peak	5063'	
					Basal Carbonate	5479'	
					Wasatch	5607'	
					Total Depth (LOGGERS)	5649'	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

APR 07 2009

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Eric Sundberg  
Regulatory Analyst  
Newfield Production Company  
1001 Seventeenth Street – Suite 2000  
Denver, CO 80202

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

RE: Additional Well Lone Tree Unit Permit

**UIC Permit No. UT20853-00000**

**Well ID: UT20853-08351**

Lone Tree Federal 7-21-9-17

2132' FNL & 1941' FEL

SW NE Sec. 21-T9S-R17E

Duchesne County, Utah

API # 43-013-33288

Dear Mr. Sundberg:

The Newfield Production Company's request to convert the former Green River Formation oil well Lone Tree Federal 7-21-9-17 to an enhanced recovery injection well in the Lone Tree Unit Area Permit is hereby authorized by the Environmental Protection Agency (EPA) under the terms and conditions of the Authorization For Additional Well.

The addition of the proposed injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of the Lone Tree Unit Area, Permit No. UT20853-00000, and subsequent modifications.

Please be aware that Newfield does not have authorization to begin injection operations into the well until all Prior to Commencing Injection requirements have been submitted and evaluated by the EPA, and has received written authorization from the Director to begin injection. Please note that the Permit limits injection to the gross interval within the Green River Formation between the depths of 3,264 feet and the top of the Wasatch Formation estimated at 5,608 feet.

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**APR 13 2009**

**DIV. OF OIL, GAS & MINING**

Prior to receiving authorization to inject, the EPA requires that Newfield submit for review and approval: (1) the results of a **Part 1 (Internal) mechanical integrity test (MIT)**, (2) a **pore pressure** calculation of the injection interval, (3) and a complete **EPA Form No. 7520-12** (Well Rework Record) with a new schematic diagram.

The initial Maximum Allowable Injection Pressure (MAIP) for the Lone Tree Federal 7-21-9-17 was determined to be **1,770 psig**. UIC Area Permit UT20853-00000 also provides the opportunity for the Permittee to request a change in the MAIP based upon results of a step rate test that demonstrates that the formation breakdown pressure will not be exceeded.

If you have any questions, please call Mr. Bob Near at (303) 312-6278 or 1-(800)-227-8917 (Ext. 312-6278). Please submit the required data to **ATTENTION: Bob Near**, at the letterhead address, citing **MAIL CODE: 8P-W-GW** very prominently.

Sincerely,



Eddie A. Sierra

for Acting Assistant Regional Administrator

Office of Partnerships and Regulatory Assistance

Encl: Authorization For Conversion of An Additional Well  
EPA Form No. 7520-12 (Well Rework Record). Proposed Wellbore and P&A Wellbore  
Schematics for Lone Tree Federal 7-21-9-17.

cc: Letter Only

Curtis Cesspooch, Chairman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Irene Cuch, Vice Chairwoman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Ronald Groves, Councilman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Steven Cesspooch, Councilman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Phillip Chimburas, Councilman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Frances Poowegup, Councilwoman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Daniel Picard,  
U.S. Bureau of Indian Affairs  
Uintah & Ouray Indian Agency

All enclosures:

Ferron Secakuku, Director  
Nautral Resources  
Ute Indian Tribe

Larry Love, Director  
Energy and Minerals Department  
Ute Indian Tribe

Michael Guinn, District Manager  
Newfield Production Company  
Myton, Utah

Gilbert Hunt, Associate Director  
Utah Division of Oil, Gas and Mining

Fluid Minerals Engineering Office  
U.S. Bureau of Land Management  
Vernal Office





# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8

1595 WYNKOOP STREET

DENVER, CO 80202-1129

Phone 800-227-8917

<http://www.epa.gov/region08>

## AUTHORIZATION FOR ADDITIONAL WELL

**UIC Area Permit No: UT20853-00000**

The Lone Tree Unit Final UIC Area Permit No. UT20853-00000, effective September 1, 1998, authorizes injection for the purpose of enhanced oil recovery in the Monument Butte Field. On February 3, 2009 Newfield Production Company notified the Director concerning the following additional enhanced recovery injection well:

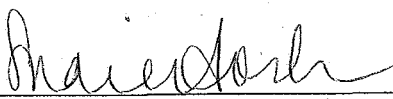
Well Name:	<b><u>Lone Tree Federal 7-21-9-17</u></b>
EPA Well ID Number:	<b><u>UT 20853-08351</u></b>
Location:	2132' FNL & 1941' FEL SW NE Sec. 21- T9S-R17E Duchesne County, Utah API #43-013-33288

Pursuant to 40 CFR §144.33, Area UIC Permit No. UT20853-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the permit.

This well is subject to all provisions of UIC Area Permit No. UT20853-00000, as modified and as specified in the Injection Well-Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: **APR 07 2009**

*for*   
**Eddie A. Sierra**  
\*Acting Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

\* The person holding this title is referred to as the Director throughout the permit and Authorization

Authorization for Additional Well: UIC Area Permit UT20853-00000  
Well: Lone Tree Federal 7-21-9-17 EPA Well ID: UT20853-08351

**RECEIVED**

**APR 13 2009**

Printed **DIV. OF OIL, GAS & MINING**

## **INJECTION WELL-SPECIFIC REQUIREMENTS**

Well Name: **Lone Tree Federal 7-21-9-17**  
EPA Well ID Number: **UT20853-08351**

### **Prior to Commencing Injection Operations, the permittee shall submit the following information:**

1. Completed Well Rework Record (EPA Form No. 7520-12) and schematic diagram.
2. Pore pressure calculation of the proposed injection zone;
3. A successful Part I (internal) Mechanical Integrity test (MIT)

Once these records are received and approved by EPA, the Director will provide written authorization to inject.

**Approved Injection Zone:** Injection is approved between the top of the Garden Gulch Member of the Green River Formation at 3,264 feet (ft.) to the top of the Wasatch Formation, at an estimated depth of 5,608 ft. (KB).

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP is **1,770 psig**, based on the following calculation:

$$\begin{aligned}\text{MAIP} &= [\text{FG} - (0.433)(\text{SG})] * \text{D}, \text{ where} \\ \text{FG} &= 0.85 \text{ psi/ft.} \quad \text{SG} = 1.015 \quad \text{D} = \mathbf{4,314 \text{ ft.}} \quad (\text{top perforation depth KB}) \\ \text{MAIP} &= \mathbf{1,770 \text{ psig}}\end{aligned}$$

UIC Area Permit No. UT20853-00000 provides the opportunity for the permittee to request a change of the MAIP based upon the submitted results of a Step Rate Test that demonstrates the formation breakdown pressure will not be exceeded.

**Well Construction: Casing and Cementing:** The well was constructed in compliance with existing regulatory controls for casing and cementing pursuant to 40 CFR § 146.22(c). Cementing records, including the cement bond log, have satisfactorily demonstrated the presence of adequate cement to prevent the migration of injection fluids behind the casing from the injection zone.

**Well Construction: Tubing and Packer:** 2-7/8" or similar size injection tubing is approved; the packer shall be set at a depth no more than 50 ft. above the top perforation.

### **Demonstration of Mechanical Integrity:**

- (1) A successful demonstration of Part I (Internal) Mechanical Integrity using a Casing-Tubing Annulus Pressure Test is required prior to injection, and no less than every five years after the last successful test.

(2) EPA reviewed the cementing records and determined the cement will provide an effective barrier to significant upward movement of fluids through vertical channels adjacent to the well bore pursuant to 40 CFR §146.8 (a)(2). Therefore, further demonstration of Part II (External) Mechanical Integrity is not required at this time.

**Demonstration of Financial Responsibility:** The applicant has demonstrated financial responsibility by a Financial Statement in the amount of \$59,344 that has been approved by the EPA. The Director may revise the amount required, and may require the permittee to obtain and provide updated estimates of costs for plugging the well according to the approved Plugging and Abandonment plan.

**Plugging and Abandonment:** The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between USDWs. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs; however, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft. surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Set a cast iron bridge plug (CIBP) no more than 50 ft. above the top perforation with a minimum of 20 ft. cement plug on top of the CIBP.

PLUG NO. 2: Perforate and squeeze cement up the backside of the 5-1/2" casing across the Trona Zone and the Mahogany Bench from approximately 2,470 ft. to 2,620 ft. (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 150-foot balanced cement plug inside the 5-1/2" casing from approximately 2,470 to 2,620 ft. (KB).

PLUG NO. 3: Perforate and squeeze cement up the backside of the 5-1/2" casing across the contact between the Uinta Formation and Green River Formation from 1,057 to 1,177 ft. (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 120-foot plug inside the 5-1/2" casing from approximately 1,057 to 1,177 ft. (KB).

PLUG NO. 4: Set a Class "G" cement plug within the 5-1/2" casing to 850 ft. and up the 5-1/2" x 8-5/8" casing annulus to the surface. The base of USDW is estimated to be at 801 ft.

## **INJECTION WELL-SPECIFIC CONSIDERATIONS**

Well Name: **Lone Tree Federal 7-21-9-17**

EPA Well ID Number: **UT20853-08351**

**Underground Sources of Drinking Water (USDWs):** USDWs in the Lone Tree Area Permit generally occur within the Uinta Formation. According to "*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92,*" the base of moderately saline ground water may be found at approximately 801 ft. below ground surface in the Lone Tree Federal 7-21-9-17 well.

**http://NRWRT1.NR.STATE.UT.US:** There are no reservoirs, streams, domestic or agricultural water wells within a quarter (1/4) mile of the well.

**Composition of Source, Formation, and Injectate Water: (Total Dissolved Solids [TDS]):**

- TDS of the Douglas Creek Member of the Green River Formation Water: 16,585 mg/l.

- TDS of Beluga Facility Injection System source water: 8,822 mg/l.

The **injectate** is water from the Beluga Facility Injection System blended with produced Green River Formation Water resulting in TDS < 10,000 mg/l.

**Aquifer Exemption** is not required because the TDS of water produced from the proposed injection well is greater than 10,000 mg/l.

**Confining Zone:** The Confining Zone, which directly overlies the Garden Gulch Member of the Green River Formation, is approximately 28 ft. of shale between the depths of 3,236 ft. and 3,264 ft. (KB).

**Injection Zone:** The Injection Zone at this well location is approximately 2,344 ft. of multiple lenticular sand units interbedded with shale, marlstone and limestone from the top of the Garden Gulch Member at 3,264 ft. (KB) to the top of the Wasatch Formation which is estimated to be at 5,608 ft. (KB). All formation tops are based on correlations to the Newfield Production Federal #1-26-8-17 (UT20702-04671) Type Log.

**Well Construction:** The CBL shows 80% or greater cement bond index in the Confining Zone (3,236 to 3,264 ft. KB). Thus, no further demonstration that well cement is adequate is required.

**Surface Casing:** 8-5/8" casing is set at 322 ft. (KB) in a 12-1/4" hole, using 160 sacks Class "G" cement, cemented to the surface.

**Longstring Casing:** 5-1/2" casing is set at 5,651 ft. (KB) in a 7-7/8" hole secured with 700 sacks of cement. Total driller depth 5,650ft. Plugged back total depth is 5,611 ft. EPA calculates top of cement at 2,013 ft. Estimated CBL top of cement is 160 ft.

## **AREA OF REVIEW (AOR) WELL REQUIREMENTS**

The following two wells that penetrate the confining zone within or proximate to a 1/4 mile radius around the Lone Tree Federal 7-21-9-17 were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs.

Well: Lone Tree Federal 6-21-9-17 API: 43-013-33289  
CBL shows 38 ft. of 80% or greater cement bond.

SENW Sec. 21-T9S-R17E

Well: Lone Tree Federal 8-21-9-17 API: 43-013-33287  
CBL shows 26 ft. of 80% or greater cement bond.

SENE Sec. 21-T9S-R17E

**No Corrective Action is required on these two wells.**

### **Reporting of Noncompliance:**

- (a) Anticipated Noncompliance. The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than thirty (30) days following each schedule date.
- (c) Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five (5) days of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause; the period of noncompliance including dates and times; if the noncompliance has not been corrected the anticipated time it is expected to continue; and steps taken or planned to prevent or reduce recurrence of the noncompliance.

**Twenty-Four Hour Noncompliance Reporting:** The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1-(800)-227-8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at (303)-293-1788, if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to a USDW.

- (b) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

**Oil Spill and Chemical Release Reporting:** The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the **National Response Center (NRC) 1-(800)-424-8802 or 1-(202)-267-2675**, or through the NRC website at <http://www.nrc.uscg.mil/index.htm>

**Other Noncompliance:** The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

**Other Information:** Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two (2) weeks of the time such information became known to him.

# LONE TREE FEDERAL 7-21-9-17

Spud Date: 09/17/07  
Put on Production: 10/25/07  
GL: 5301' KB: 5313'

Initial Production: BOPD,  
MCFD, BWPD

## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (312.58')  
DEPTH LANDED: 322.06' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 0 bbls cmt to surf.

## Proposed Injection Wellbore Diagram

## FRAC JOB

10/19/07 5246-5276' Frac CP4 sands as follows:  
129904# 20/40 sand in 935 bbls Lightning 17  
frac fluid. Treated @ avg press of 1843 psi  
w/avg rate of 23 BPM. ISIP 2240 psi. Calc  
flush: 5244 gal. Actual flush: 4788 gal.

10/19/07 5098-5108' Frac CP1 sands as follows:  
22391# 20/40 sand in 322 bbl Lightning 17  
frac fluid. Treated @ avg press of 2057 psi  
w/avg rate of 23 BPM. ISIP 2125 psi. Calc  
flush: 5096 gal. Actual flush: 4620 gal.

10/19/07 4598-4708' Frac A1, A3, & A5 sands as follows:  
88336# 20/40 sand in 684 bbls Lightning 17  
frac fluid. Treated @ avg press of 2055 psi  
w/avg rate of 23.1 BPM. ISIP 1814 psi. Calc  
flush: 4596 gal. Actual flush: 4116 gal.

10/19/07 4314-4320' Frac D2 sands as follows:  
32824# 20/40 sand in 389 bbls Lightning 17  
frac fluid. Treated @ avg press of 2072 psi  
w/avg rate of 23 BPM. ISIP 1895 psi. Calc  
flush: 4312 gal. Actual flush: 4200 gal.

Base USDW 801'

## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 145 jts. (5637.82')  
DEPTH LANDED: 5651.07' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP: 160' CBL

TOC/EPA 2013'

## TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 167 jts (5206.56')  
TUBING ANCHOR: 5218.56' KB  
NO. OF JOINTS: 2 jts (60.87')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5282.83' KB  
NO. OF JOINTS: 2 jts (61.22')  
TOTAL STRING LENGTH: EOT @ 5345.00' KB

28' 80% Cement Band

322'  
- 1117' Green River  
- 2520' Trona  
- 2538' - 70' Mahogany Bench

- 3236 Confining Zone  
- 3264' Garden Gulch

- 4228' Douglas Creek

Packer @ 4279'  
4314-4320'

4598-4608'

4656-4663'

4702-4708'

- 5043' Castle Peak

5098-5108'

5246-5276'

- 5478 Basal Carb.

PBTD @ 5611'

SHOE @ 5651'

TD @ 5650' Wasatch

## PERFORATION RECORD

10/12/07	5246-5276'	4 JSPF	120 holes
10/19/07	5098-5108'	4 JSPF	40 holes
10/19/07	4702-4708'	4 JSPF	24 holes
10/19/07	4656-4663'	4 JSPF	28 holes
10/19/07	4598-4608'	4 JSPF	40 holes

NEWFIELD

LONE TREE FEDERAL 7-21-9-17

2132' FNL & 1941' FEL

SW/NE Section 21-T9S-R17E

Duchesne Co, Utah

API #43-013-33288; Lease # UTU-13905

# LONE TREE FEDERAL 7-21-9-17

Spud Date: 09/17/07  
Put on Production: 10/25/07  
GL: 5301' KB: 5313'

Initial Production: BOPD,  
MCFD, BWPD

## Proposed P & A Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (312.58')  
DEPTH LANDED: 322.06' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 1- 160, sxs Class "G" cement, est 0 bbls cement to surf.

CBL Cement Top @ 160'

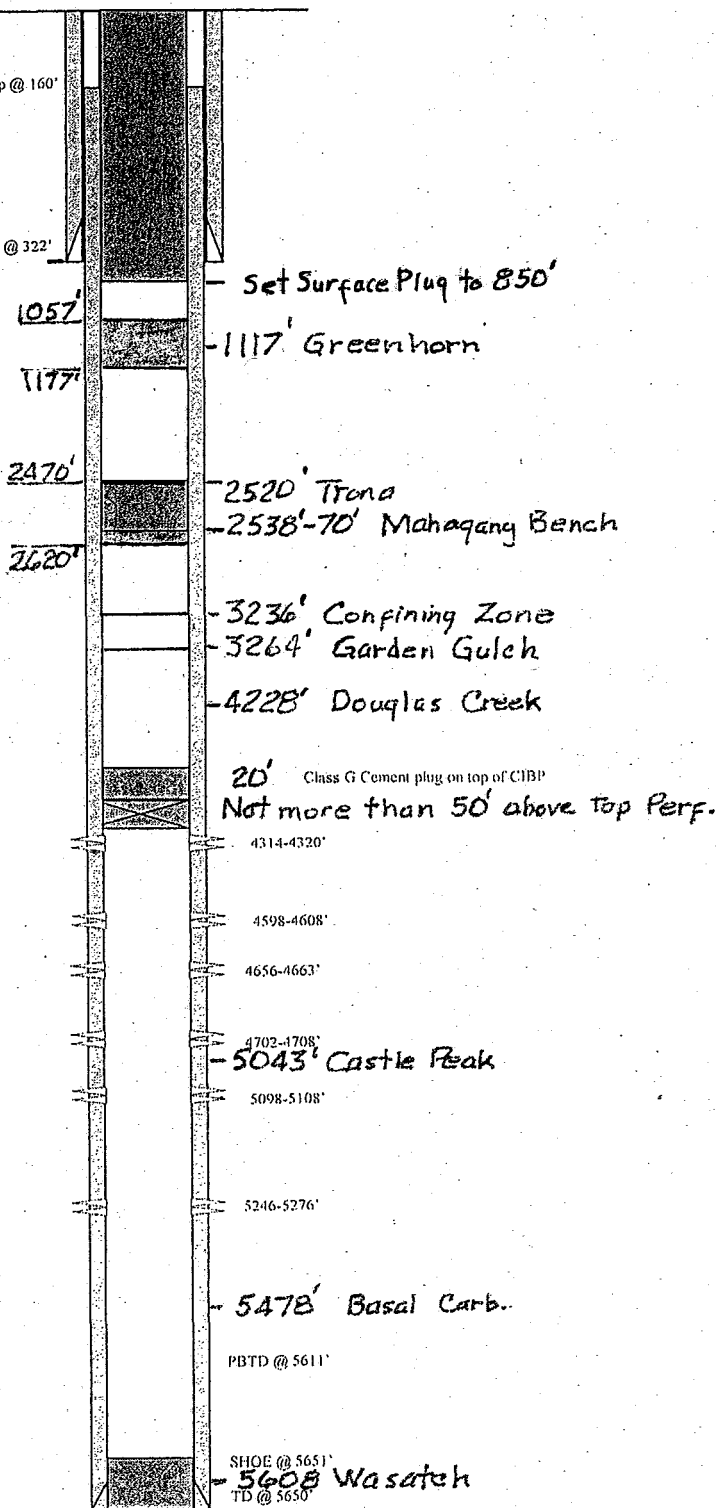
Casing Shoe @ 322'

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 145 jts. (5637.82')  
DEPTH LANDED: 5651.07' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP: 160'

Cement Plug

Cement Plug



NEWFIELD

LONE TREE FEDERAL 7-21-9-17

2132'FNL & 1941' FEL

SW/NE Section 21-T9S-R17E

Duchesne Co, Utah

API #43-013-33288; Lease # UTU-13905





**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8**

**1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>**

**JUN 11 2012**

Ref: 8P-W-UIC

**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

Mr. Eric Sundberg  
Regulatory Analyst  
Newfield Production Company  
1001 Seventeenth Street – Suite 2000  
Denver, Colorado 80202

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

**RECEIVED  
JUN 20 2012  
DIV. OF OIL, GAS & MINING**

RE: Underground Injection Control (UIC)  
Additional Well to Lone Tree Area Permit  
EPA UIC Permit UT20853-9634  
Well: Lone Tree Federal 7-21-9-17  
SWNE Sec. 21 T9S-R17E  
Duchesne County, Utah  
API No.: 43-013-33288

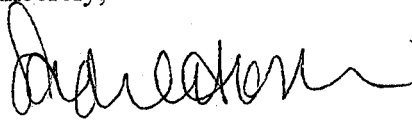
Dear Mr. Sundberg:


The U.S. Environmental Protection Agency Region 8 hereby authorizes Newfield Production Company (Newfield) to convert the oil well Lone Tree Federal 7-21-9-17 to an enhanced recovery injection well according to the terms and conditions of the enclosed Authorization for Additional Well. The addition of this injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of the Lone Tree Area Permit No. UT20853-00000 and subsequent modifications.

Please be aware that Newfield does not have authorization to begin well injection until all Prior to Commencing Injection requirements are met and written authorization to inject is given by the Director. Prior to receiving authorization to inject Newfield must submit for review and approval (1) the results of a Part I (internal) Mechanical Integrity test, (2) a pore pressure calculation of the injection interval and (3) a completed EPA Form No. 7520-12 (Well Rework Record) with a new schematic diagram.

If you have any questions, please call Bob Near at (303) 312-6278 or (800) 227-8917, extension 312-6278. Please submit the required data to Jason Deardorff at the letterhead address citing mail code 8P-W-UIC.

Sincerely,



 Callie A. Videtich  
Acting Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

Enclosures: Authorization for Additional Well  
Wellbore Schematic for Lone Tree Federal 7-21-9-17

cc: Letter Only:

Uintah & Ouray Business Committee:

Irene Cuch, Chairman  
Ronald Wopsock, Vice-Chairman  
Frances Poowegup, Councilwoman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman  
Richard Jenks, Jr., Councilman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

cc: All Enclosures:

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Reed Durfey  
Newfield Production Company

FOR RECORD ONLY  
Utah Division of  
Oil, Gas and Mining  
Accepted by the



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
1595 WYNKOOP STREET  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

## AUTHORIZATION FOR ADDITIONAL WELL

### UIC Area Permit UT20853-09634

The Lone Tree UIC Area Permit UT20853-00000, effective September 1, 1998 authorizes injection for the purpose of enhanced oil recovery in the Monument Butte Field. On March 23, 2012, Newfield Production Company notified the Director concerning the following additional enhanced recovery injection well:

Well Name:	Lone Tree Federal 7-21-9-17
EPA Permit ID Number:	UT20853-09634
Location:	2132' FNL & 1941' FEL SWNE Sec. 21-T9S-R17E Duchesne County, Utah API #43-013-33288

Pursuant to 40 CFR §144.33, Area UIC Permit UT20853-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the permit.

This well is subject to all provisions of UIC Area Permit No. UT20853-00000, as modified and as specified in the Injection Well-Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: 6/7/12

**Callie A. Videtich**

\*Acting Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

*\* The person holding this title is referred to as the Director throughout the permit and Authorization*

## **INJECTION WELL-SPECIFIC REQUIREMENTS**

Well Name: **Lone Tree Federal 7-21-9-17**

EPA Well ID Number: **UT20853-09634**

### **Prior to Commencing Injection Operations, the permittee shall submit the following information:**

1. Completed Well Rework Record (EPA Form No. 7520-12) and schematic diagram;
2. Pore pressure calculation of the proposed injection zone;
3. Results from a successful part I (internal) Mechanical Integrity test.

Once these records are received and approved by EPA, the Director will provide written authorization to inject.

**Note:** All depths given in this authorization reference the Kelly Bushing datum unless otherwise specified.

**Approved Injection Interval:** The injection interval is the part of the injection zone where fluids are directly emplaced. The approved injection interval for this well is from the top of the Garden Gulch Sand #2 to the top of the Wasatch Formation. Additional injection perforations may be added provided that they remain within the approved injection interval. Injection between the outermost casing protecting USDWs and the well bore is prohibited.

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP is **1,270 psig**, based on the calculation  $MAIP = [FG - (0.433)(SG)] * D$ , where "FG" is the fracture gradient, "SG" is the specific gravity of injectate and "D" is the Kelly Bushing depth to the shallowest casing perforation. For this well, FG is 0.800 psi/ft, SG is 1.015 and D is 4,314 ft.

UIC Area Permit No. UT20853-00000 provides the opportunity for the permittee to request a change of the MAIP based upon the submitted results of a step rate test that demonstrates the formation parting pressure.

**Well Construction: Casing and Cementing:** The well was constructed in compliance with existing regulatory controls for casing and cementing pursuant to 40 CFR § 146.22(c). Cementing records, including the cement bond log, have satisfactorily demonstrated the presence of adequate cement to prevent the migration of injection fluids behind the casing from the injection zone.

**Well Construction: Tubing and Packer:** 2-7/8" or similar size injection tubing is approved. The packer shall be set at a depth no more than 100 ft. above the top perforation.

### **Demonstration of Mechanical Integrity:**

- (1) A successful demonstration of part I (internal) mechanical integrity using a Casing-Tubing Annulus Pressure Test is required prior to injection, and no less than every five years after the last successful test.
- (2) EPA reviewed the cementing records and determined the cement will provide an effective barrier to significant upward movement of fluids through vertical channels adjacent to the well bore pursuant to 40 CFR §146.8 (a)(2). Therefore, further demonstration of Part II (external) Mechanical Integrity is not required at this time.

**Demonstration of Financial Responsibility:** The applicant has demonstrated financial responsibility by a Surety Bond in the amount of \$42,000 and a Standby Trust Agreement that have been approved by EPA. The Director may revise the amount required and may require the permittee to obtain and provide updated estimates of costs for plugging the well according to the approved Plugging and Abandonment plan.

**Plugging and Abandonment:** The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between Underground Sources of Drinking Water (USDW). Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs; however, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft. surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

- (1) Isolate the injection zone: Remove down hole apparatus from the well and perform necessary clean out; displace well fluid with plugging gel. Set a cast iron bridge plug (CIBP) within the innermost casing string no more than 50 ft. above the top perforation with a minimum of 20 ft. cement plug on top of the CIBP.
- (2) Isolate the Trona-Bird's Nest water zone and Mahogany Oil Shale: Perforate and squeeze cement up the backside of the outermost casing string across the Mahogany Oil Shale and Trona-Bird's Nest water zone, from at least 55 ft. above the top of the Trona-Bird's Nest to at least 55 ft. below the base of Mahogany Oil Shale, unless there is existing cement across this interval.
- (3) Isolate the Uinta Formation from the Green River Formation: Perforate and squeeze a minimum of 110 ft. cement up the backside of the outermost casing string to isolate the contact between the Uinta Formation and the Green River Formation, unless there is existing cement across this interval. Set a minimum 110 ft. cement plug in the innermost

casing string, centered on the contact between the Green River Formation and Uinta Formation.

(4) Isolate Surface Fluid Migration Paths:

- a. If the depth of the lowermost USDW is above the base of surface casing, perforate the outermost casing string 50 ft. below the base of surface casing and circulate cement to the surface, unless there is existing cement across this interval; OR
- b. If the depth of the lowermost USDW is below the base of surface casing, perforate the outermost casing string 50 ft. below the base of the lowermost USDW and circulate cement to surface; AND
- c. Set a cement plug inside the innermost casing string from 50 ft. below the base of the surface casing to surface.

### **INJECTION WELL-SPECIFIC CONSIDERATIONS**

Well Name: **Lone Tree Federal 7-21-9-17**

EPA Well ID Number: **UT20853-09634**

**Underground Sources of Drinking Water (USDWs):** USDWs in the Lone Tree Area Permit generally occur within the Uinta Formation. According to "*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92,*" the base of moderately saline ground water may be found at approximately 801 ft. below ground surface in the Lone Tree Federal 7-21-9-17 well. Water samples from the Green River Formation taken in conjunction with oil production show that USDWs do occur at deeper depths within the Humpback unit and as deep as 6,026 ft. in the Balcron Monument Federal 33-25-8-17 well. Freshening of the injection zone due to the injection of relatively fresh water for the purpose of enhanced oil recovery has been demonstrated to be occurring in parts of the Monument Butte Field, including this permit area.

**http:NRWRT1.NR.STATE.UT.US:** According to the state of Utah, any water wells present within the permit area are shallow and do not intersect the injection zone.

**Composition of Source, Formation, and Injectate Water:** A water sample analysis was not required as part of the application to add this well to the area permit because EPA considers the water quality of the injection zone to be well documented. Area UIC Permit UT20771-00000 and Statement of Basis describe originally in place formation fluid within the injection zone to be greater than 10,000 mg/l Total Dissolved Solids (TDS) content. However, due to injection of relatively fresh water for the purpose of enhanced oil recovery within the permit area, produced water samples showing TDS values less than 10,000 mg/l have occurred and this occurrence has been observed to increase in frequency with time. Newfield has demonstrated and EPA has confirmed that freshening of the injection zone is occurring and that more recent water samples

Authorization for Additional Well: UIC Area Permit UT20853-00000

Well: Lone Tree Federal 7-21-9-17 EPA Well ID: UT20853-09634

showing TDS values less than 10,000 mg/l are not likely representative of the original formation fluid at or near this well. EPA considers the presence of waters less than 10,000 mg/l within the injection zone to be a temporary, artificial condition and therefore does not require an aquifer exemption to allow injection to occur.

The injectate is water from a Monument Butte Field Injection Facility and consists of culinary water from the Johnson Water District and/or water from the Green River, blended with produced Green River Formation water and resulting in TDS content less than 10,000 mg/l.

**Confining Zone:** A *Confining Zone* is a geological formation, group of formations, or part of a formation that is capable of limiting fluid movement above an injection zone. The designated Confining Zone for this well consists of three interbedded, thick impervious shales, confining marlstones and siltstones. The Confining Zone extends from approximately 200 feet above the Garden Gulch Marker to the top of the Garden Gulch Number 2 Sand within the Garden Gulch Member of the Green River Formation. This interval is found between the depths of 3,970 feet to 4,466 feet in the Federal 1-26-8-17 Type Gamma Log for the Monument Butte Field.

**Injection Zone:** An *injection zone* is a geological formation, group of formations, or part of a formation that receives fluids through a well. The Injection Zone for this well consists of the lower part of the Garden Gulch member starting at the top of the Garden Gulch #2 Sand and includes the Douglas Creek and Basal Carbonate members of the Green River Formation to the top of the Wasatch Formation.

**Well Construction:** This well was constructed according to BLM requirements and controls for production wells at the time of well completion. EPA has reviewed and approved the construction and determined that it is adequate to protect USDWs.

**Surface Casing:** 8-5/8" casing is set at 322 ft. in a 12-1/4" hole, using 160 sacks Class "G" cement, cemented to the surface.

**Longstring Casing:** 5-1/2" casing is set at 5,651 ft. in a 7-7/8" hole secured with 700 sacks of cement. Total driller depth is 5,650 ft. Plugged back total depth is 5,611 ft. EPA calculates top of cement at 2,013 ft. Estimated CBL top of cement is 160 ft.

**Perforations:** Top perforation: 4,314 ft. Bottom perforation: 5,276 ft.

## **AREA OF REVIEW (AOR) WELL REQUIREMENTS**

The following three wells that penetrate the confining zone within or proximate to a ¼-mile radius around the Lone Tree Federal 7-21-9-17 well were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs:

Lone Tree Federal 8-21-9-17      API: 43-013-33287      SENE Sec. 6-T9S-R17E  
The Top of Cement is above the base of the Confining Zone at 244 ft.

*Authorization for Additional Well: UIC Area Permit UT20853-00000*  
*Well: Lone Tree Federal 7-21-9-17 EPA Well ID: UT20853-09634*

Lone Tree Federal 10-21-9-17      API: 43-013-34162      NWSE Sec. 21-T9S-R17E  
The Top of Cement is above the base of the Confining Zone at 92 ft.

Lone Tree Federal 6-21-9-17      API: 43-013-33289      SENW Sec. 21-T9S-R17E  
The Top of Cement is above the base of the Confining Zone at 31 ft.

**No Corrective Action Required on AOR wells:** EPA reviewed all wells penetrating the Confining Zone within a ¼-mile radius of the proposed injection well and determined that cement in these wells is adequate to prevent the movement of fluid into USDWs. Top of cement is above the base of the Confining Zone in all AOR wells.

**Reporting of Noncompliance:**

- 1) **Anticipated Noncompliance.** The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- 2) **Compliance Schedules.** Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.
- 3) **(Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five days of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause, the period of noncompliance including dates and times, if the noncompliance has not been corrected the anticipated time it is expected to continue, and steps taken or planned to prevent or reduce recurrence of the noncompliance.**

**Twenty-Four Hour Noncompliance Reporting:** The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1-(800)-227-8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at (303)-293-1788, if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- 1) Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water.
- 2) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

**Oil Spill and Chemical Release Reporting:** The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the **National Response Center (NRC) 1-(800)-424-8802 or 1-(202)-267-2675**, or through the NRC website at <http://www.nrc.uscg.mil/index.htm>



**Other Noncompliance:** The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

**Other Information:** Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two weeks of the time such information became known.

LONE TREE FEDERAL 7-21-9-17

Spud Date: 09/17/07  
Put on Production: 10/25/07  
GL: 5301' KB: 5313'

Initial Production: BOPD,  
MCFD, BWPD

## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (312.58')  
DEPTH LANDED: 322.06' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 0 bbls cmt to surf.

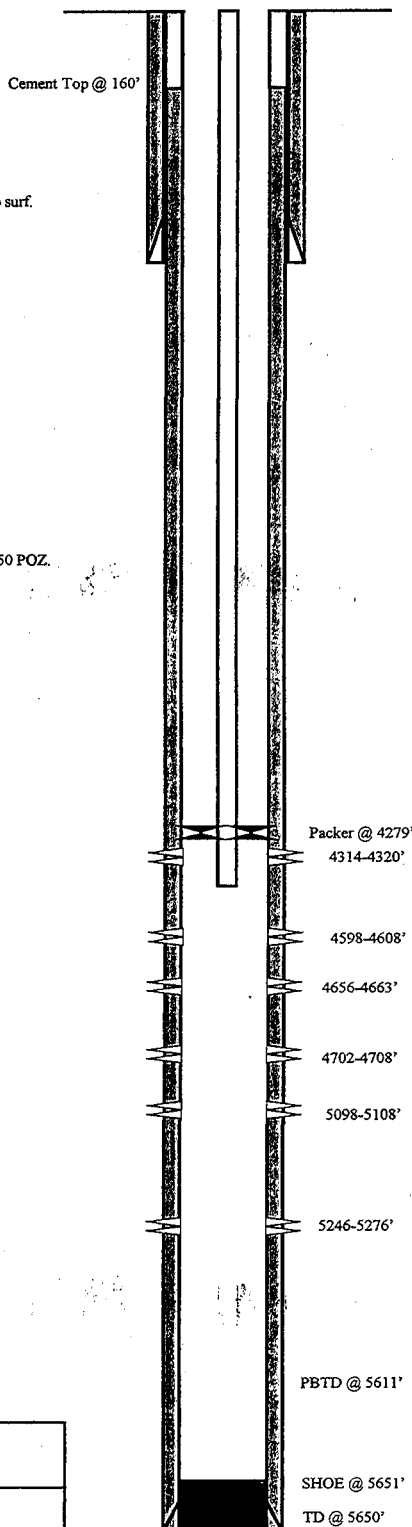
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 145 jts. (5637.82')  
DEPTH LANDED: 5651.07' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP: 160'

## TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 167 jts (5206.56')  
TUBING ANCHOR: 5218.56' KB  
NO. OF JOINTS: 2 jts (60.87')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5282.83' KB  
NO. OF JOINTS: 2 jts (61.22')  
TOTAL STRING LENGTH: EOT @ 5345.00' KB

### Proposed Injection Wellbore Diagram



## FRAC JOB

10/19/07	5246-5276'	<p><b>Frac CP4 sands as follows:</b>  129904# 20/40 sand in 935 bbls Lightning 17  frac fluid. Treated @ avg press of 1843 psi  w/avg rate of 23 BPM. ISIP 2240 psi. Calc  flush: 5244 gal. Actual flush: 4788 gal.</p>
10/19/07	5098-5108'	<p><b>Frac CP1 sands as follows:</b>  22391# 20/40 sand in 322 bbl Lightning 17  frac fluid. Treated @ avg press of 2057 psi  w/avg rate of 23 BPM. ISIP 2125 psi. Calc  flush: 5096 gal. Actual flush: 4620 gal.</p>
10/19/07	4598-4708'	<p><b>Frac A1, A3, &amp; A5 sands as follows:</b>  88336# 20/40 sand in 684 bbls Lightning 17  frac fluid. Treated @ avg press of 2055 psi  w/avg rate of 23.1 BPM. ISIP 1814 psi. Calc  flush: 4596 gal. Actual flush: 4116 gal.</p>
10/19/07	4314-4320'	<p><b>Frac D2 sands as follows:</b>  32824# 20/40 sand in 389 bbls Lightning 17  frac fluid. Treated @ avg press of 2072 psi  w/avg rate of 23 BPM. ISIP 1895 psi. Calc  flush: 4312 gal. Actual flush: 4200 gal.</p>

### PERFORATION RECORD

10/12/07	5246-5276'	4 JSPF	120 holes
10/19/07	5098-5108'	4 JSPF	40 holes
10/19/07	4702-4708'	4 JSPF	24 holes
10/19/07	4656-4663'	4 JSPF	28 holes
10/19/07	4598-4608'	4 JSPF	40 holes



**LONE TREE FEDERAL 7-21-9-17**

2132'FNL & 1941' FEL  
SW/NE Section 21-T9S-R17E  
Duchesne Co, Utah  
#43-013-33288; Lease # UTU-1

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-13905
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> LONE TREE FED 7-21-9-17
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2132 FNL 1941 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 21 Township: 09.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43013332880000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/23/2012	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input checked="" type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	OTHER: <input type="text" value="Put on Injection"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  The above reference well was put on injection at 4:15 PM on 10/23/2012. EPA # UT20853-09634		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> October 29, 2012		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/24/2012	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

OCT 17 2012

Ref: 8P-W-UIC

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

RECEIVED  
OCT 24 2012  
DIV. OF OIL & GAS

Mr. Reed Durfey  
District Manager  
Newfield Production Company  
Route 3 – Box 3630  
Myton, Utah

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

RE: Underground Injection Control (UIC)  
Authorization to Commence Injection  
EPA UIC Permit UT20853-09634  
Well: Lone Tree Federal 7-21-9-17  
SWNE Sec. 21-T9S-R17E  
Duchesne County, Utah  
API No.: 43-013-33288

Dear Mr. Durfey:

The U.S. Environmental Protection Agency Region 8 has received Newfield Production Company's (Newfield) October 2, 2012, letter with enclosures. The enclosed Part I (internal) Mechanical Integrity test, Well Rework Record (EPA Form 7520-12), schematic diagram and calculated pore pressure were reviewed and approved by the EPA, satisfactorily completing all Prior to Commencing Injection Requirements for UIC Permit UT20853-09634.

As of the date of this letter, Newfield is authorized to commence injection into the Lone Tree Federal 7-21-9-17 well at a Maximum Allowable Injection Pressure (MAIP) of 1,270 psig. You may apply for a higher MAIP at a later date. Your application should be accompanied by the interpreted results of a step rate test that measures the fracture parting pressure and calculates the fracture gradient at this depth and location. Newfield must receive prior authorization from the Director to inject at pressures greater than the permitted MAIP during any test.

As of this approval, responsibility for permit compliance and enforcement is transferred to the EPA's UIC Technical Enforcement Program. Therefore, please direct all monitoring and compliance correspondence to Sarah Roberts at the following address, referencing the well name and UIC Permit number on all correspondence:

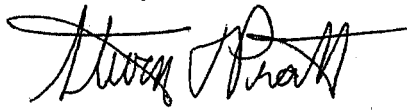
Ms. Sarah Roberts  
U.S. EPA Region 8: 8ENF-UFO  
1595 Wynkoop Street  
Denver, Colorado 80202-1129

Or, you may reach Ms. Roberts by telephone at (303) 312-6211 or (800) 227-8927, extension 312-6211.

Please remember that it is your responsibility to be aware of, and to comply with, all conditions of injection well Permit UT20853-09634.

If you have questions regarding the above action, please call Bob Near at (303) 312-6278 or (800) 227-8917, extension 312-6278.

Sincerely,



for Howard M. Cantor, for  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:

Irene Cuch, Chairwoman  
Richard Jenks, Jr., Councilman  
Frances Poowegup, Councilwoman  
Ronald Wopsock, Vice-Chairman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman

Johnna Blackhair  
BIA - Uintah & Ouray Indian Agency

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

# Lone Tree Federal 7-21-9-17

Spud Date: 09-17-07  
Put on Production: 10/25/07  
GL: 5301' KB: 5313'

## Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (312.58')  
DEPTH LANDED: 322.06' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 0 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 145 jts. (5637.82')  
DEPTH LANDED: 5651.07' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP: 160'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 - 6.5#  
NO. OF JOINTS: 137 jts (4270.7')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4282.7' KB  
ON/OFF TOOL AT: 4283.8'  
ARROW #1 PACKER CE AT: 4288.58'  
XO 2-3/8 x 2-7/8 J-55 AT: 4292.2'  
TBG SUB 2-3/8 J-55 AT: 4292.8'  
X/N NIPPLE AT: 4296.9'  
TOTAL STRING LENGTH: EOT @ 4298'

### FRAC JOB

10/19/07 5246-5276' **Frac CP4 sands as follows:**  
129904# 20/40 sand in 935 bbls Lightning 17  
frac fluid. Treated @ avg press of 1843 psi  
w/avg rate of 23 BPM. ISIP 2240 psi. Calc  
flush: 5244 gal. Actual flush: 4788 gal.

10/19/07 5098-5108' **Frac CP1 sands as follows:**  
22391# 20/40 sand in 322 bbl Lightning 17  
frac fluid. Treated @ avg press of 2057 psi  
w/avg rate of 23 BPM. ISIP 2125 psi. Calc  
flush: 5096 gal. Actual flush: 4620 gal.

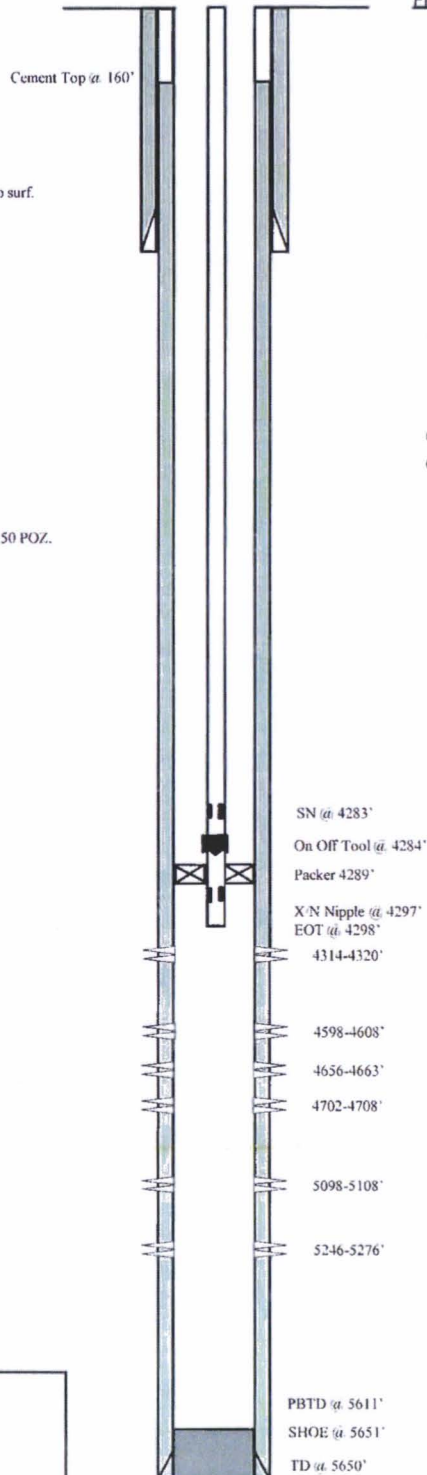
10/19/07 4598-4708' **Frac A1, A3, & A5 sands as follows:**  
88336# 20/40 sand in 684 bbls Lightning 17  
frac fluid. Treated @ avg press of 2055 psi  
w/avg rate of 23.1 BPM. ISIP 1814 psi. Calc  
flush: 4596 gal. Actual flush: 4116 gal.

10/19/07 4314-4320' **Frac D2 sands as follows:**  
32824# 20/40 sand in 389 bbls Lightning 17  
frac fluid. Treated @ avg press of 2072 psi  
w/avg rate of 23 BPM. ISIP 1895 psi. Calc  
flush: 4312 gal. Actual flush: 4200 gal.

09/27/12  
09/27/12 **Convert to Injection Well**  
**Conversion MIT Finalized** - update thg  
detail

### PERFORATION RECORD

10/12/07	5246-5276'	4 JSPF	120 holes
10/19/07	5098-5108'	4 JSPF	40 holes
10/19/07	4702-4708'	4 JSPF	24 holes
10/19/07	4656-4663'	4 JSPF	28 holes
10/19/07	4598-4608'	4 JSPF	40 holes
10/19/07	4314-4320'	4 JSPF	24 holes



NEWFIELD

LONE TREE FEDERAL 7-21-9-17

2132' FNL & 1941' FEL

SW NE Section 21-T9S-R17E

Duchesne Co, Utah

API #43-013-33288; Lease # UTU-13905

## NEWFIELD



October 2, 2012

Mr. Jason Deardorff  
8P-W-GW  
US EPA Region 8  
1595 Wynkoop Street  
Denver, Colorado 80202-1129

RE: Injection Conversion  
Well: Lone Tree Federal 7-21-9-17  
EPA #: UT20853-09634  
API #: 43-013-33288

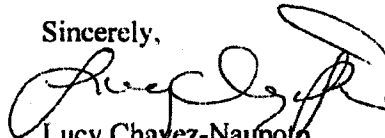
Dear Mr. Deardorff:

21 9S 17E

The subject well was converted from a producing oil well to a water injection well. Attached are the EPA Form 7520-12, MIT Pressure Test, an updated wellbore diagram, a copy of the chart, and Daily Activity report. The pore pressure for this well has been calculated to be 1218 psia.

You may contact me at 435-646-4874 or [lc Chavez-naupoto@newfield.com](mailto:lc Chavez-naupoto@newfield.com) if you require further information.

Sincerely,



Lucy Chavez-Naupoto  
Water Services Technician


 United States Environmental Protection Agency  
 Washington, DC 20460

**WELL REWORK RECORD**

<b>Name and Address of Permittee</b> Newfield Production Company 410 17th St, Suite 700, Denver, Colorado 80202-4402	<b>Name and Address of Contractor</b> Same as Permittee
--	--

<b>Locate Well and Outline Unit on Section Plat - 640 Acres</b> 	<b>State</b> Utah	<b>County</b> Duchesne	<b>Permit Number</b> UT20853-09634
<b>Surface Location Description</b> S 1/4 of W 1/4 of N 1/4 of E 1/4 of Section 21 Township 9S Range 17E			
Locate well in two directions from nearest lines of quarter section and drilling unit <b>Surface</b> Location: 2132 ft. from (N/S) N Line of quarter section and 1941 ft. from (E/W) E Line of quarter section.			
<b>WELL ACTIVITY</b> <input type="checkbox"/> Brine Disposal <input checked="" type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage		<b>Total Depth Before Rework</b> 5650'	<b>TYPE OF PERMIT</b> <input checked="" type="checkbox"/> Individual <input type="checkbox"/> Area Number of Wells 1
<b>Lease Name</b> Lone Tree Federal		<b>Total Depth After Rework</b> 5650'	<b>Well Number</b> 7-21-9-17
		<b>Date Rework Commenced</b> 09/25/2012	
		<b>Date Rework Completed</b> 09/27/2012	

WELL CASING RECORD -- BEFORE REWORK						
Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
8 5/8"	322	160	Class "G"	5246	5276	Perf and Frac
5 1/2"	5651	300	Prem L.T. II	5098	5108	Perf and Frac
		400	50/50 Poz.	4598	4708	Perf and Frac
				4314	4320	Perf and Frac

WELL CASING RECORD -- AFTER REWORK (Indicate Additions and Changes Only)						
Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL USE ADDITIONAL SHEETS IF NECESSARY	WIRE LINE LOGS, LIST EACH TYPE	
	Log Types	Logged Intervals

**Certification**

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

<b>Name and Official Title (Please type or print)</b> Lucy Chavez-Naupoto, Water Services Technician	<b>Signature</b> 	<b>Date Signed</b> 10/02/2012
---	----------------------	----------------------------------



Sundry Number: 30416 API Well Number: 43013332880000

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>  5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-13905			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)			
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: LONE TREE FED 7-21-9-17			
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		9. API NUMBER: 43013332880000			
3. ADDRESS OF OPERATOR: Rt 3 Box 3630, Myton, UT, 84052		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2132 FNL 1941 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 21 Township: 09.0S Range: 17.0E Meridian: S		COUNTY: DUCHESNE  STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION  <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/27/2012  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td style="vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input checked="" type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input checked="" type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input checked="" type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input checked="" type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span>
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input checked="" type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input checked="" type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span>			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The subject well has been converted from a producing oil well to an injection well on 09/27/2012. On 09/25/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 09/27/2012 the casing was pressured up to 1620 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 350 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20853-09634					
NAME (PLEASE PRINT) Lucy Chavez-Naupoto		PHONE NUMBER 435 646-4874			
SIGNATURE N/A		TITLE Water Services Technician  DATE 10/2/2012			

RECEIVED: Oct. 02, 2012

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 9/27/2012  
Test conducted by: Cody Marx  
Others present: \_\_\_\_\_

114-20833-9634

Well Name: <u>Lone Tree Federal 721-9-17</u>	Type: <u>ER SWD</u>	Status: <u>AC TA UC</u>
Field: <u>Monument Butte</u>		
Location: <u>S11/W4</u>	Sec: <u>21</u>	T <u>9</u> N <u>10</u> R <u>17</u> E W County: <u>Duchesne</u> State: <u>Utah</u>
Operator: <u>Cody Marx</u>		
Last MIT: <u>1</u>	Maximum Allowable Pressure: _____	PSIG

Is this a regularly scheduled test? ☐ Yes ☒ No  
Initial test for permit? ☒ Yes ☐ No  
Test after well rework? ☐ Yes ☒ No  
Well injecting during test? ☐ Yes ☒ No If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 1620 psig

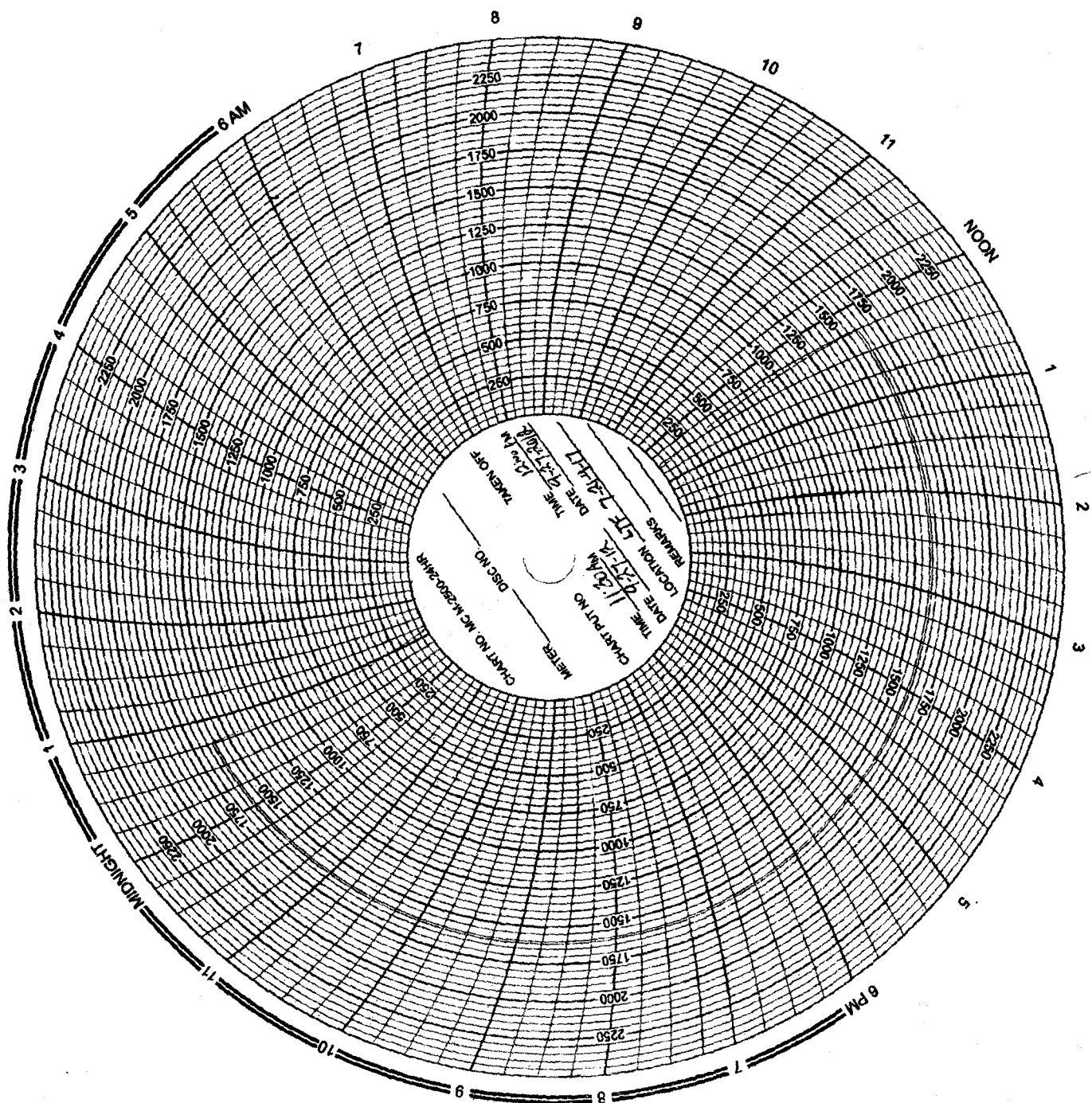
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>350</u> psig	psig	psig
End of test pressure	<u>350</u> psig	psig	psig
<b>CASING/TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1620</u> psig	psig	psig
5 minutes	<u>1620</u> psig	psig	psig
10 minutes	<u>1620</u> psig	psig	psig
15 minutes	<u>1620</u> psig	psig	psig
20 minutes	<u>1620</u> psig	psig	psig
25 minutes	<u>1620</u> psig	psig	psig
30 minutes	<u>1620</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☐ No

## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_



**Daily Activity Report****Format For Sundry****LONETREE 7-21-9-17****8/1/2012 To 10/30/2012****9/25/2012 Day: 1****Conversion**

NC #1 on 9/25/2012 - MIRUSU, R/D Unit, U/S pmp, Flush Tbg, Seat pmp, Fill Tbg, P/Tst Tbg To 3500 Psi, U/S pmp, POOH L/D Rod Prod String & pmp, N/U BOP, SWI, C/SDFN. - 10:00AM Move In NC#1. Wait On Benco To Pull Test Guyline Anchors. R/U NC#1, R/D Unit, Unseat pmp, Flush Tbg W/-40 BW, Seat pmp, Fill Tbg W/-15 BW, P/Test Tbg To 3500 Psi, Good Test. Unseat pmp, POOH L/D 1 1/2X26' Polish Rod, 3/4X2'-4'-6'-8' Ponys, 99- 3/4 4 Per, 85- 3/4 Slick, 20- 3/4 4 Per, 6- 1 1/2 Wt Bars & pmp. Flushed Tbg W/-20 BW On TOO. N/D W/-HD, N/U BOP, R/U R/Flr, Rel T/A, SWI, 6:00PM C/SDFN, 6:00PM-6:30PM C/Trvl.

**Daily Cost: \$6,607****Cumulative Cost: \$6,607****9/26/2012 Day: 2****Conversion**

NC #1 on 9/26/2012 - POOH W/137 Jts Tbg Redoping Tool Jts, L/D 30 Jts Tbg, T/A, 2 Jts Tbg, S/N, 2 Jts Tbg, N/C. P/U & RIH W/-Injection Prod BHA, pmp Pad D/Tbg, Drop SV, Fill Tbg, P/Tst Tbg To 3000 Psi, N/D pmp pkr fluid, set pkr, N/U, p/tst csg, Unstabilized, SWI, C/SDFN. - 5:30AM-6:00AM C/Trvl, 6:00AM OWU, POOH W/-137 Jts Tbg In Derrick Breaking & Redoping Tool Jts W/-Liq O Ring, L/D 30 Jts Tbg, T/A, 2 Jts Tbg, S/N, 2 Jts Tbg, N/C On Float. Flushed Tbg W/-20 BW On TOO Due To Oil. P/U & RIH W/-2 3/8 Re entry Guide, 2 3/8 X/N Nipple, 2 3/8X4.10 Tbg Sub, 2 3/8X2 7/8 XO, 5 1/2 Arrow #1 Pkr, 4 3/4 OD On Off Tool, 2 7/8 S/N, 137 Jts Tbg, R/U H/Oiler pmp 20 BW Pad D/Tbg, Drop SV, Fill Tbg W/-15 BW, P/Test Tbg To 3,000 Psi, Gained 120 Psi In 1 Hr. R/U S/Line Ovrshot RIH & Fish SV. R/D R/Flr, N/D BOP, N/U W/-HD, pmp 70 BW W/-20 Gal Pkr Fluid D/Csg, N/D W/-HD, Set Pkr In 15,000 Tension, N/U W/-HD, Fill Csg W/-30 BW, P/Test Csg To 1,500 Psi, Csg Psi Unstabilized, SWI, 6:00PM C/SDFN, 6:00PM-6:30PM C/Trvl.

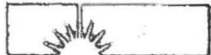
**Daily Cost: \$18,482****Cumulative Cost: \$25,089****9/27/2012 Day: 3****Conversion**

NC #1 on 9/27/2012 - 1640 Psi On Csg, Good Test, R/D Rig ( Final Rig Report ) Ready For MIT. - 5:30AM-6:00AM C/Trvl, 6:00AM OWU W/-1640 Psi On Csg, Good Test, Rack Out Eq, R/D Rig, 8:30AM Move Out, Final Rig Report ) Well Ready For MIT. - On 09/25/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 09/27/2012 the casing was pressured up to 1620 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 350 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20853-09634 - On 09/25/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 09/27/2012 the casing was pressured up to 1620 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 350 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20853-09634 - 5:30AM-6:00AM C/Trvl, 6:00AM OWU W/-1640 Psi On Csg, Good Test, Rack Out Eq, R/D Rig, 8:30AM Move Out, Final Rig Report ) Well Ready For MIT. **Finalized**

**Daily Cost: \$1,665****Cumulative Cost: \$26,754**

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**Pertinent Files: [Go to File List](#)**

**NEWFIELD****ROCKY MOUNTAINS****Final Daily Workover Report**

Well Name: LONETREE 7-21-9-17

AFE: 28211

Report Date: 9/27/12

Operation: Conversion MIT

Field:	GMBU CTB6	Rig Name:	Rigless	Work Performed:	9/27/2012
Location:	S21 T9S R17E	Supervisor:	Alfredo Rios	Day:	4
County:	DUCHESNE	Phone:	435-823-0173	Daily Cost:	\$88,270
State:	UT	Email:	anos@newfield.com	Cum DWR:	\$115,024

Reason for Workover: Conversion

24 Hr Summary: Conduct initial MIT

24 Hr Plan Forward: Wait for approval to commence injection

Incidents:	None	Newfield Pers:	1	Contract Pers:	0	Conditions:
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Critical Comments

**Activity Summary**

11:30 - 12:00; 0.5 Hr(s); P : On 09/25/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 09/27/2012 the casing was pressured up to 1620 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 350 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT20853-09634

Failures

Failure Date